aiwa

DVD Stereo System

XS-DV335

EZ

8B-DJW-916-01
010520AMI-U-I

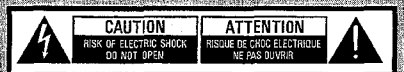
OPERATING INSTRUCTIONS

En (English)

En

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



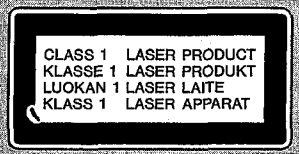
CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This compact disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!

Invisible laser radiation when open and interlocks defeated. Avoid exposure to beam.

NOTE

AIWA CO. LTD. - JAPAN - DECLARES UNDER ITS OWN RESPONSIBILITY THAT THE PRODUCT DESCRIBED IN THIS MANUAL IS IN COMPLIANCE WITH THE DIRECTIVES OF D.M 28.8.95 No. 548, ACCORDING TO THE STIPULATIONS OF PARAGRAPH 3 OF ATTACHMENT A OF D.M. 25.6.85 AND PARAGRAPH 3 OF ATTACHMENT 1 OF D.M. 27.8.87 (REGULATIONS REGARDING FREQUENCIES).
The above information is only for Italy.

PRECAUTIONS

Read these Operating Instructions carefully and completely before operating the unit. All precautions on this booklet and on the unit should be strictly followed.
Keep the Operating Instructions for future reference.

Installation

1 Water and moisture — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.

2 Heat — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C or greater than 35°C.

3 Mounting surface — Place the unit on a flat, even surface.

4 Ventilation — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm clearance from the rear and the top of the unit, and 5 cm from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 Objects and liquid entry — Take care that objects or liquids do not get inside the unit through the ventilation openings.

6 Carts and stands — When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.

7 Condensation — Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.

8 Wall or ceiling mounting — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 Power sources — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.

2 AC power cord
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading power socket and extension cords beyond their capacity, as this could result in fire or shock.

3 When not in use — Unplug the AC power cord from the power socket if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have gotten inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

System and accessories

XS-DV335
CX-GDV335 DVD stereo receiver
SX-GDV335 Five Surround speaker system (front speakers, surround speakers, centre speaker)
TS-WM9 Subwoofer
Remote control
FM antenna, MW/LW antenna
Front speakers cord (approx. 4 m) × 2
Surround speaker cord (with plugs, approx. 8 m) × 2
Centre speaker cord (with a plug, approx. 3 m) × 1
Video connecting cord
Pedestal × 2

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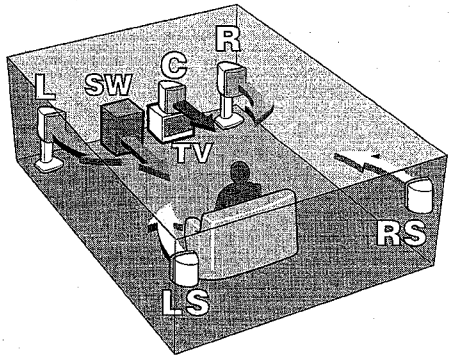
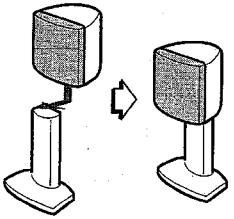
Placement

Place the speakers in their proper position. All speakers for a full 5.1-channel home theatre come supplied with your DVD system.

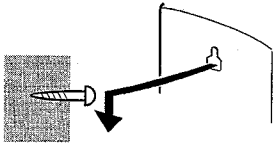


L&R: Front speakers (marked "FRONT")
C: Centre speaker (marked "CENTER")
Place it in the centre of the two front speakers, possibly on or below the TV set.
LS&RS: Surround speakers (marked "REAR")
Place them directly to the side of or slightly behind the listening area. Align them horizontally, preferably about 1 metre above ear height.
SW: Subwoofer
Place it on the floor close to a wall or in a corner of the room.

To attach the front speaker to the pedestal



To mount the surround speakers on the wall
Mount each speaker on a spot that can hold its weight.



AIWA disclaims any responsibility for injury to persons or other accidents caused by not fitting the surround speakers properly or if the place of the installation is not suitable.

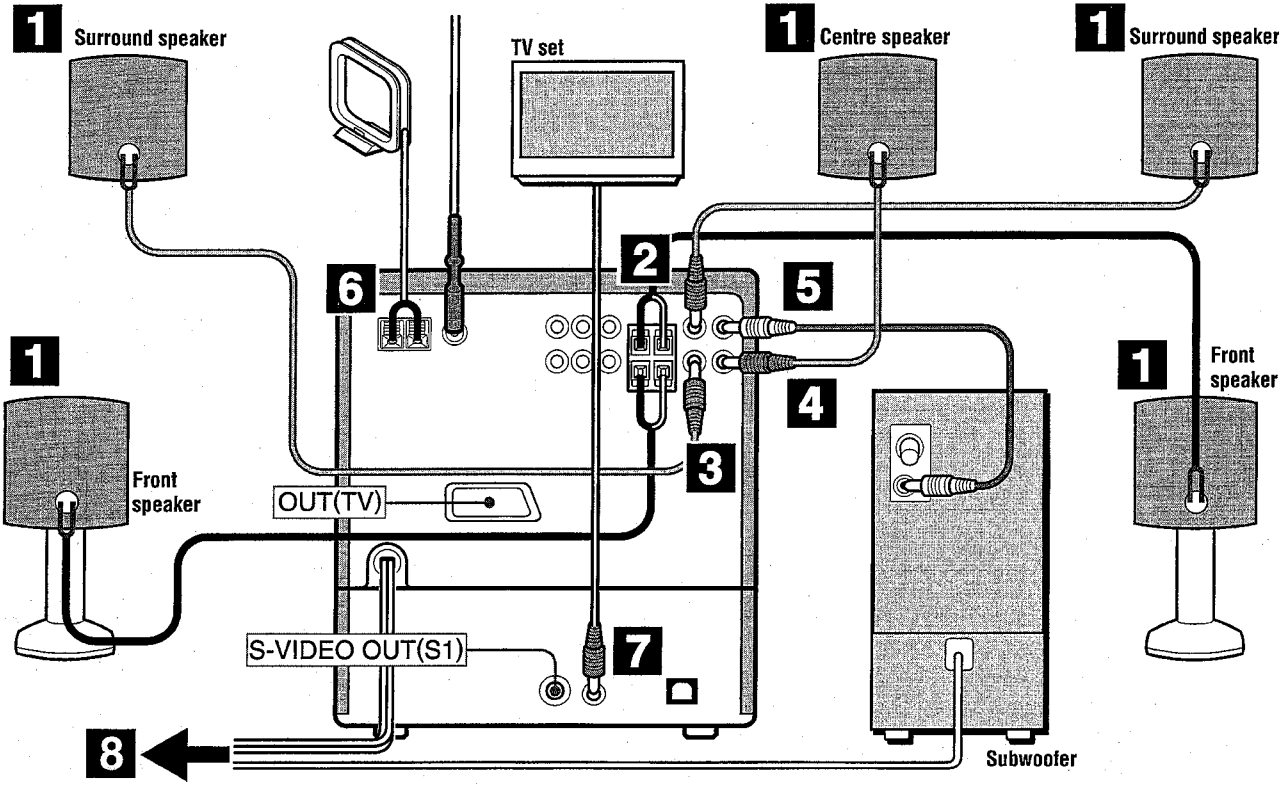
- Either of the two front speakers can be used as the right or the left one; likewise for the surround speakers.
- Do not place the left and right front speakers close to the TV set, as doing so may cause picture noise.
- Sound output from the centre and the surround speakers is only available when the Dolby or the DTS surround system is activated with the appropriate setting.

Placing the main unit
Allow 10 cm clearance from the top of the unit for movement of the Slide Window.

Attaching the anti-skid patches
To prevent the surround and center speakers from slipping, attach the supplied anti-skid patches to the bottom of the speakers. Use 3 patches for each of these speakers.

Connection

Plug in the AC power cord to the AC power outlet after all other connections are made.



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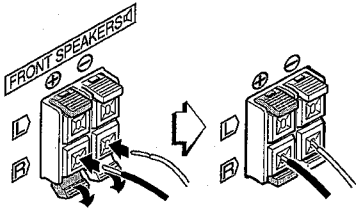
1 Connect the bare ends of each speaker cord to the corresponding speaker.
Be sure to use the correct cord for each speaker.
- Front speaker cords have bare leads at both ends (approx. 4 m).
- Surround speaker cords are the longer cords with a plug at one end (approx. 8 m).
- Centre speaker cord is the short cord with a plug at one end (approx. 3 m).

The copper-coloured cords go to the ⊕ terminal of each speaker.

2 Connect the cords from the front speakers to the appropriate terminals on the main unit.
- Right front speaker: FRONT SPEAKERS R terminals
- Left front speaker: FRONT SPEAKERS L terminals

The copper-coloured cords go to the ⊕ terminals.

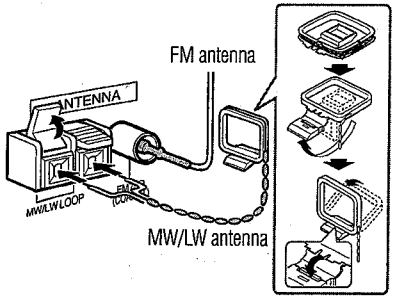


3 Connect the cords from the surround speakers to the appropriate jacks on the main unit.
- Right surround speaker: SURROUND SPEAKERS R jack
- Left surround speaker: SURROUND SPEAKERS L jack

4 Connect the cord from the centre speaker to the CENTER SPEAKER jack.

5 Connect the subwoofer to the SUB WOOFER jack.
- Refer to the Operating Instructions of TS-WM9.

6 Connect the supplied antennas.
Connect the FM antenna to the FM 75 Ω terminals and the MW/LW antenna to the MW/LW LOOP terminals.



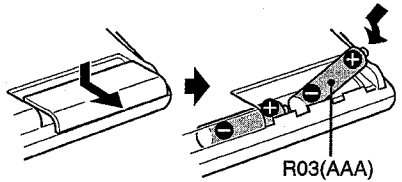
7 Connect the television set.
If your TV set has an S-video input jack:
Connect the S-VIDEO OUT (S1) jack of this unit and the S-video input jack of your TV with an optional S-video connecting cord.
If your TV set does not have an S-video input jack:
Either
Connect the VIDEO OUT jack of this unit and the video input jack of your TV with the supplied video connecting cord.
or
Connect the OUT (TV) jack of this unit and the SCART input jack of your TV with an optional SCART cord.
Refer also to the Operating Instructions of your TV set.
The illustration shows the connection to the VIDEO OUT jack.
- If your TV set is a wide-screen set: you need to adjust the TV aspect setting later (see "TV Aspect", page 34).
- Do not use more than one connection to connect your TV.
- The OUT (TV) jack supports only video output. It does not output audio signals or accept control signals to turn the unit on.

8 Connect the power supply.
Plug in the AC power cords of the main unit and the subwoofer to AC outlets.
The automatic demonstration will run on the display while the power is turned off, until the clock is set.

- Do not short-circuit the ⊕ and ⊖ speaker cord leads.
- Do not leave objects generating magnetism or objects affected by magnetism near the speakers.

Remote control

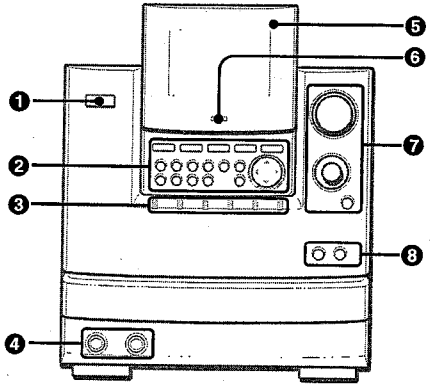
Detach the battery compartment lid at the rear of the remote control and insert two R03 (size AAA) batteries with correct polarity.



- Replace the batteries with new ones when the operational distance between the remote control and main unit becomes shorter.
- Remove the batteries if the unit is not going to be used for an extended period of time.
- The remote control may not operate if it is used under intense sunlight, etc., or if its line of sight is obstructed.

PARTS AND CONTROLS

Main unit: front



❶ POWER ⏻STANDBY/ON
Switches the unit on and off (standby).

❷ ⏸SET
Disc: pauses playback.
Radio: stores the received station to preset.

■CLEAR
Disc: stops playback.
Radio: clears a station preset.

⏮⏮DOWN, ⏭⏭UP
Disc: skips to a previous or a succeeding title/track when pressed, searches a title/track in fast forward or fast reverse playback when held down.
Radio: manually tunes down or up within the band.

►PRESET
Disc: starts playback.
Radio: tunes into a preset station.

MODE
Adjusts various mode and sound settings. Press repeatedly to select among ECO MODE, TIMER, CLOCK, MIC, ECHO, GEQ, T-BASS, BBE, COLOR, WINDOW, BEEP, and CD BLANK SKIP.

PBC
Switches PBC(Playback Control) on and off for VCDs.

↶RETURN
Returns to the previous menu screen. Displays the menu for VCDs.

RT
Displays text information for RDS (Radio Data System).

PTY
Displays a program type for RDS (Radio Data System).

AG
Selects a sound equalization curve for RDS (Radio Data System).

SURROUND
Turns on the Dolby or DTS decoder. Press repeatedly to select a listening mode.

MENU
Displays the menu for DVDs.

TITLE
Displays the title menu for DVDs.

SETUP
During stop: enters the setup menu.
During playback: changes the playback time display of a disc.

▲▼◄►CURSOR
Changes the menu item selection in the MODE setting and the setup menu.

ENTER
Enters the item selected with the cursor.

❸ Function indicators
Lights up to show the selected function.

❹ PHONES jack
Plug in here an optional headphones set with a standard stereo plug (ø6.3 mm). Speaker output is cancelled.

MIC jack
Plug in here an optional microphone with a standard stereo plug (ø6.3 mm).

❺ Motorized Slide Window
Moves up and down to reveal and hide the operation buttons.

❻ WINDOW UP/DOWN
Moves the Slide Window up and down.

❼ VOLUME
Adjusts the volume.

FUNCTION
Selects DISC, TUNER, VIDEO/AUX or MD function.

DISC PLAY/BAND
Disc: selects a disc.
Radio: selects the band.
During power off: switches the automatic demonstration on and off.

❽ DISC CHANGE
Rotates the disc tray.

⏏OPEN/CLOSE
Opens and closes the disc tray.

Main unit: rear

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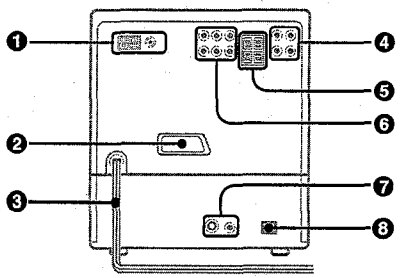


❶ **MW/LW LOOP, FM 75 Ω terminals**
Plug in the supplied MW/LW and FM antennas here.

❷ **OUT (TV) terminal**
Outputs composite video signals via a SCART plug.

❸ **AC power cord**

❹ **SURROUND SPEAKERS jacks**
Connect the surround speakers here.

SUB WOOFER jack
Connect the supplied or an optional powered subwoofer here.

CENTER SPEAKER jack
Connect the centre speaker here.

❺ **FRONT SPEAKERS terminals**
Connect the supplied front speakers here.

❻ **VIDEO/AUX jacks**
Accepts analogue sound signals from external equipment.

MD jacks
Accepts analogue sound signals from external equipment.

LINE OUT jacks
Outputs analogue sound signals to external equipment.

❼ **S-VIDEO OUT (S1) jack**
Outputs S-VIDEO signals.

VIDEO OUT jack
Outputs standard (composite) video signals via an RCA plug.

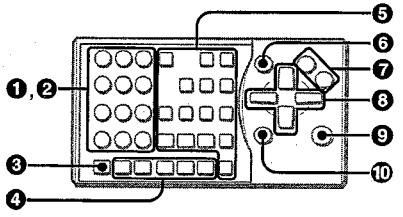
❽ **DIGITAL AUDIO OUT (OPTICAL) jack**
Outputs digital audio signals to external digital equipment. Keep the jack covered with the supplied dust cap when it is not being used.

CAUTION
NEVER play a multichannel Dolby Digital or a DTS source through external digital equipment without a Dolby Digital or a DTS decoder, respectively. Doing so will generate high level noise which may be harmful to your ears and damage the speakers.

Dynamic Integrated New Amplifier

This unit features the Dynamic Integrated New Amplifier, which is a brand-new amplifier system where clear mid-to-high range frequency sound, as well as rich low frequency sound, can be reproduced. Listeners can enjoy the close-to-original sound with less distortion at either high or low volume levels.

Remote control



Buttons with same or similar names with the main unit basically have the same function.

❶ **0-9, +10**
Disc: selects a title/track of the specified number. Selects a menu item for VCDs with PBC.
Radio: tunes in to the station with the specified preset number.

C
Clears the Mark memory, etc.

❷ *The numbered buttons take on these functions when pressed together with SHIFT:*

CENTER LEVEL(+, −)
Adjusts the sound level of the centre speaker for Dolby and DTS surround.

REAR LEVEL(+, −)
Adjusts the sound level of the surround speakers for Dolby and DTS surround.

MANUAL SELECT
Enters speaker level and delay time setting mode.

MONO TUNER
Switches between stereo or monaural FM reception.

REPEAT
Enters repeat playback mode.

RANDOM/PRGM
Enters random or programmed playback mode.

PBC

TIMER
Enters timer setting mode.

SLEEP
Enters sleep-timer setting mode.

CLOCK
Enters clock adjustment mode.

❸ **SHIFT**
Hold down when pressing a numbered button to change its function to that printed above the number.

- e.g., "Press **SHIFT+TIMER** on the remote control" means to hold down SHIFT and press 0/TIMER to use the button for the timer function.

❹ **II SET**

■ CLEAR

◄◄/I◄◄ DOWN

► PRESET

►►/►►I UP

❺ **DISC DIRECT**
Selects a disc with the numbered button (1-3).

WINDOW UP/DOWN

MENU

SUBTITLE SELECT
Changes the subtitle language (DVDs only).

SUBTITLE ON/OFF
Switches the subtitle on and off (DVDs only).

TITLE

ZOOM
Enlarge the picture (DVDs only).

T-SEARCH
Enters the time search mode to locate a point in the disc by specifying the title number, chapter number or the playback time (DVDs only).

MARK
Enters the Mark mode to mark a point in the disc or to start playback from a marked point (DVDs only).

AUDIO SELECT
Changes audio tracks (DVDs) or channels (VCDs).

SURROUND

ON SCREEN
Displays disc playback status on the TV screen.

SETUP

ANGLE
Selects the angle to view the scene (DVDs only).

RETURN

❻ **FUNCTION/BAND**
Hold down SHIFT to switch the radio band.

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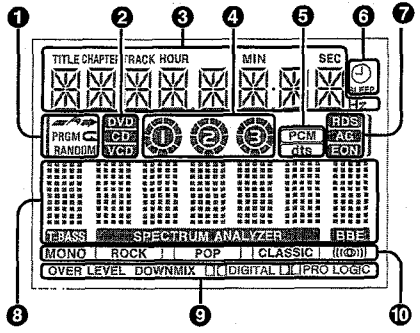
❼ VOLUME (∧,∨)
❽ ▲▼◀▶CURSOR
❾ POWER
❿ ENTER

Display window



❶ **Playback mode indicators**
Lights up to show the blank skip, programmed, repeat, and random playback modes.

❷ **Disc type indicators**
Indicates the type of current disc (DVD, CD, or VCD).

❸ **Main display**
Shows general information such as the active function, current adjustment mode, title/chapter/track number, elapsed time, radio frequency, or the time.

❹ **Disc slot indicators**
The slot number for the current disc flashes. Other loaded slot(s) light(s) up.

❺ **Audio signal type indicators**
Indicates the signal type of the current audio track.
"PCM" (Pulse Code Modulation) lights up for standard audio CDs.

❻ **◴/SLEEP indicator**
Lights up when the timer/sleep function is active.

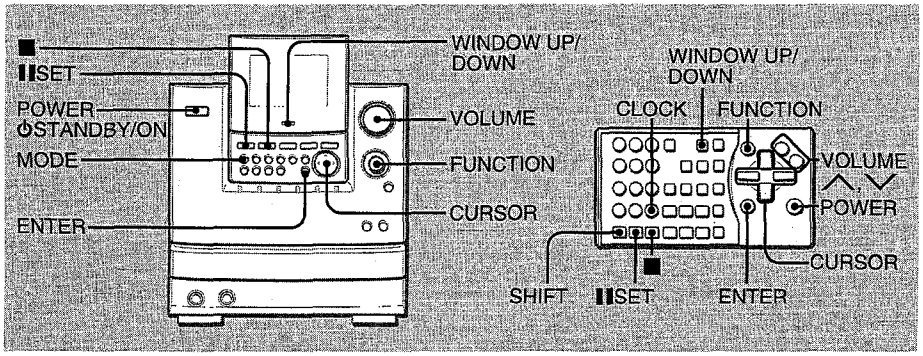
❼ **RDS/AG/EON indicator**
Lights up to show an Radio Data System, the Auto GEQ and Enhanced Other Networks information.

❽ **Sound emphasis indicators**
Graphically displays the volume level, T-BASS level, BBE level and the selected GEQ curve.

❾ **Output type indicators**
The surround playback mode indicators ("DOWNMIX", "DD DIGITAL" and "DD PRO LOGIC") indicate the surround output type in which the source is actually being played.
The "OVER LEVEL" indicator lights up when external input level is too high.

❿ **MONO/((◉))(stereo) indicators**
Indicates the type of radio reception.

ROCK/POP/CLASSIC
Indicates the selected GEQ curve.



Power

Press POWER ⏻STANDBY/ON (POWER on the remote control) to turn the unit on and off.

If the unit turns off automatically

If the unit turns off automatically when left unoperated for 10 minutes with no source playing, the unit is in the "ECO AUTO" mode. Change the setting if desired (see "Power economizing mode", page 29).

Volume

Turn VOLUME, or press VOLUME ∧,∨ on the remote control.

Adjust from 0 (minimum) to 49 and MAX (maximum).

- Volume level setting is retained during power-off standby. If the unit is turned off with the volume set to 21 or more, it is automatically turned down to 20 the next time the unit is turned on.

Selecting a function

Turn FUNCTION on the main unit, or press FUNCTION repeatedly on the remote control.

The current function name appears on the display, and the corresponding function indicator lights up.

Motorized Slide Window

Touch WINDOW UP/DOWN. On the remote control, press WINDOW UP/DOWN.

The Slide Window slides up or down to reveal or cover the operation buttons.

- When the power economizing mode is set to "ECO ON" and the power is turned off, touching WINDOW UP/DOWN will not open the Slide Window.
- The button on the main unit is a "touch sensor" button. A light touch will activate it.
- The Slide Window can be set up so that it moves up automatically as needed. See "Slide Window setting", page 30.
- Do not place anything on the Slide Window, or its movement will be blocked.

Setting the clock

1 Press MODE to enter the setting mode.
- On the remote control, press SHIFT+CLOCK and skip step 2.

2 Press MODE or ▲▼CURSOR repeatedly to display "CLOCK".

3 Press ◀▶CURSOR repeatedly to set the time.
Each press changes the time in 1-minute steps. Holding it down changes the time in 10-minute steps.
If ◀▶ CURSOR is not pressed within 4 seconds, setting is cancelled.

4 Press ENTER or ❚❚SET.
The time display stops flashing and the clock starts from 00 seconds.

To display the time

Press SHIFT+CLOCK on the remote control.
The time is displayed for 4 seconds.

To switch to the 24-hour standard

Display the time and press ■ within 4 seconds.
With each press, the clock alternates between the 12-hour and the 24-hour standard.

- In the 12-hour standard, "AM 12:00" indicates midnight and "PM 12:00" noon.

If the clock display flashes when the unit is turned off

There has been a power interruption. Re-set the clock.

PLAYING DISCS—PREPARATORY INFORMATION

Read the following information before playing discs.

En

Supported disc formats

This unit plays discs with the following logos.

DVDs (8 cm disc/12 cm disc)	DVD VIDEO
Video CDs (VCDs) (8 cm disc/12 cm disc)	COMPACT disc DIGITAL VIDEO
Audio CDs (8 cm disc/12 cm disc)	COMPACT disc DIGITAL AUDIO

- The unit may not play a CD-R/RW disc recorded on personal computers or certain kinds of CD-R/RW recorders.
- Do not attach adhesive label, etc. to either side of a CD-R/RW disc, as doing so may cause malfunction.
- Do not load an unrecorded CD-R/RW disc. The disc may be damaged.
- Do not use irregular-shaped CDs.

Colour system for DVDs and VCDs

This unit conforms to the PAL colour system and cannot play DVDs or video CDs recorded in the SECAM colour system.

DVD region code

This unit is designed and manufactured for playback of region "2" encoded DVD software. Region code appears on most DVD labels to indicate which type of player can play the disc.

- A DVD without a "2" or "ALL" on its disc label cannot be played on this unit. If you try to play such a disc, the message "REGIONAL CODE VIOLATION" will appear on the TV screen.
- Some DVDs may not be properly labeled with a region code, although they may in fact be region encoded and thus limited in its playback area.

Software dependent features of DVDs and VCDs

Since playback operations of DVDs and video CDs may be intentionally fixed by software manufacturers, some playback features of this player may not be available. For example, some DVDs may not allow the pressing of STOP, ⏮, ⏭, or other buttons at certain points in the disc. "⃠" appears on the TV screen if you press a button that cannot be used. Refer to the instructions supplied with the disc.

Subdivision of discs

Title (DVD only)
Largest subdivision of a DVD; a movie for video software, or an album for audio software.

Chapter (DVD only)
Sections within a title. A title is usually made up of several chapters.

Track (audio CD and VCD only)
Sections within an audio or video CD.

Scene (VCD with PBC only)
Sections within a VCD with the PBC function. Scenes are displayed in tiles on the menu screen, each with a scene number for easy selection.

Types of VCDs

Video CDs equipped with PBC (Version 2.0)
PBC (PlayBack Control) allows you to select and play back tracks via menu operations. High-resolution stills can also be played back if available.

Video CDs not equipped with PBC (Version 1.1)
These older types of VCDs are operated in the same way as audio CDs.

- In some cases, you may want to play back VCDs equipped with PBC with the PBC feature off. This is because some disc playback features can only be used for VCDs without PBC. See "Disabling PBC", page 14.

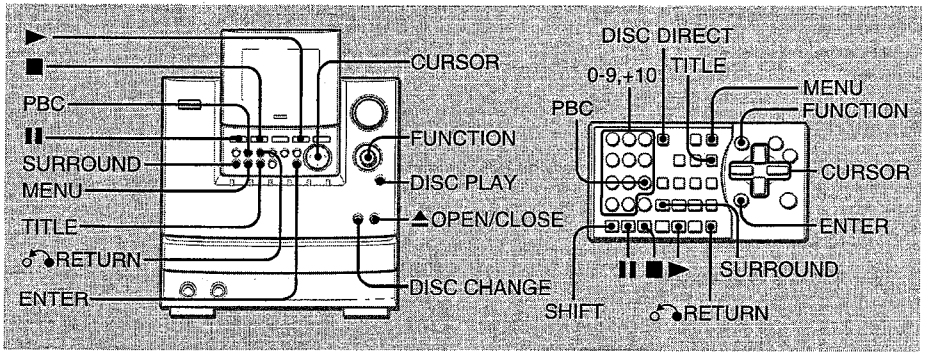
Copyright protection

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.

Copy protection signals are included in some DVD and VCD discs. If video recording equipment is connected directly or indirectly to the video output of this unit, picture noise may appear when playing back such discs. Recording of such discs made on a VCR will also have picture noise.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

PLAYING DISCS—BASIC PLAYBACK



Basic playback operation common to DVDs, audio CDs, and video CDs are described in this section.

Check your TV connection first

- Make sure the TV set is connected and its input source is selected properly.
- Various guide displays of the current operation are available on the TV screen. To view them, make sure you have "Guide Message ON" in the Setup menu (see "Guide Message", page 33).
- You can select the language for the guide message out of 6 available languages (see "Menu Language", page 33).

Loading discs

1 Press ▲OPEN/CLOSE to open the disc tray.

2 Place the disc(s) on the slot(s) with the labeled side up.
To load three discs, press DISC CHANGE to rotate the tray after placing two discs. Place the third disc on slot 3.

3 Press ▲OPEN/CLOSE to close the disc tray.
"READING" appears on the display while the unit reads the disc. The disc type indicator lights up on the display (see "Display window", page 10).

- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the slot.
- Do not place more than one disc on one slot.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.

Playing discs

1 Select the DVD function.
Turn FUNCTION on the main unit or press FUNCTION repeatedly on the remote control.

2 Press ►.
For a DVD, or a VCD with PBC, playback starts automatically when the disc is loaded. The audio signal type indicator lights up on the display (see "Display Window", page 10).

All Disc Playback

When ► is pressed to start playback, it begins with the disc with the lowest slot number, and goes on to play all loaded discs. If the disc played back in the course of All Disc Playback is a DVD, or a VCD with PBC, however, All Disc Playback is cancelled when this disc finishes playback.

To play just one disc (Single Disc Playback)

Press DISC PLAY repeatedly to select your desired disc.
On the remote control, press DISC DIRECT, then press a number button for the slot (1 to 3) to select a disc.
The selected disc is played back once, then playback stops.

To switch between All Disc Playback and Single Disc Playback during playback

Hold down DISC PLAY.

To play DTS audio CDs

Hold down SURROUND to select "DTS MODE". Otherwise, high-level noise will be produced which may harm both your hearing and the unit.

If "PCM CD" appears in the display

You are trying to play a regular (PCM) audio CD when the unit is in the DTS mode. Hold down SURROUND to select "PCM MODE".

En

Playing back with the software specific menu (DVDs and VCDs only)

This unit supports the menu interface of DVDs, and VCDs with PBC. The menu screen may be displayed automatically when the disc is loaded.

DVDs

1 Press ▲▼◀▶ CURSOR to select your desired program.

2 Press ENTER to begin playback.

To display the menu

Press TITLE or MENU during playback or stop.

VCDs

To select a program from the menu

Press the number button(s) to select your desired program.

To display the menu

Press ↩RETURN.

- For some DVDs you can select the menu language out of the ones available. See "Disc Menu", page 34.
- Contents and operation of the software specific menu vary with the disc. Follow the instructions on the disc and on the menu screen.

Stopping and pausing

To stop playback

Press ■.

Playback stops. The unit remembers the point at which playback stopped.

To resume playback from the point where it stopped

Press ►.

"RESUME" appears on the TV display and playback starts where it last stopped (Resume function).

To clear the point to be resumed

Press ■ again during stop.

"RESUME OFF" appears on the TV display. The resume memory is cleared, and playback starts at the beginning of the disc when ► is pressed.

Notes on the resume function

- The point to be resumed is also cleared when the disc tray is opened, the current disc is switched, the power is turned off, or the function is switched.
- The resume function is not available for PBC playback of VCDs. To turn off PBC, see "Disabling PBC" below.

To pause playback

Press ❚❚.

To resume playback, press ►.

Switching the current disc

On the main unit:

Press DISC PLAY repeatedly to select your desired disc.

On the remote control:

Press DISC DIRECT, then press a numbered button for the slot (1 to 3) to select a disc.

Press the disc number within 3 seconds after pressing DISC DIRECT.

Removing discs

Press ▲OPEN/CLOSE.

The disc tray opens. The power turns on if pressed when power is off.

To rotate the tray

Press DISC CHANGE.

To replace discs during playback

While a disc is playing, other discs can be replaced without interrupting current playback.

1 Press DISC CHANGE.

2 Replace the disc(s).

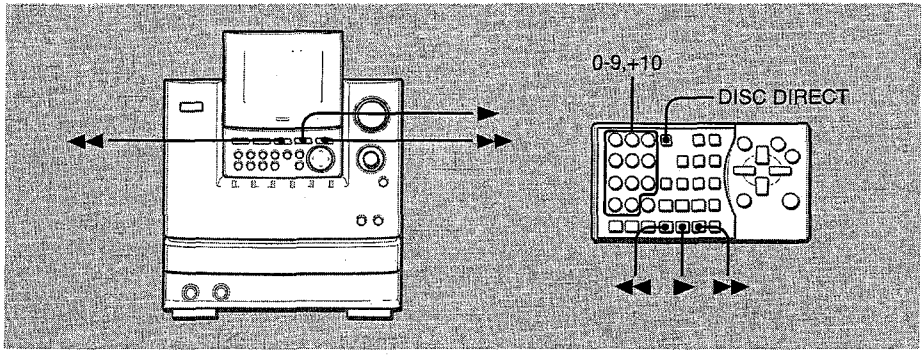
3 Press ▲OPEN/CLOSE to close the disc compartment.

Disabling PBC (VCD only)

Press PBC (SHIFT+PBC on the remote control).

"PBC" disappears from the display, and the menu playback feature is disabled.

- With PBC disabled, VCDs are played just like audio CDs. This allows you, for example, to use repeat playback and programmed playback for VCDs with PBC.
- If PBC is pressed during playback, playback stops.
- See also "Types of VCDs", page 12.



Basic operations to locate a desired point are described here. DVDs can also be searched by other methods (see "Playing discs—DVD features", page 18).

Direct selection (CDs and VCDs only)

Select a track directly by entering the track number on the remote control.

1 Press DISC DIRECT, then press a numbered button (1-3) to select a disc.
Press the disc number within 3 seconds after pressing DISC DIRECT.

2 Press the numbered buttons for the desired track.
Example:
To play track 12, press +10, 2.
To play track 20, press +10, +10, 0.
Playback begins at the beginning of the selected track and continues to the end of the disc.

- For VCDs with PBC, turn off PBC first (see "Disabling PBC", page 14).

Fast forward/reverse playback

Hold down ◄◄ or ►► during playback.
- DVDs: "◄◄x 2" or "►►x 2" is displayed on the TV screen.
- CDs and VCDs: "◄◄x 5" or "►►x 5" is displayed on the TV screen.

To change playback speed

Hold down ◄◄ or ►► repeatedly.
- DVD: playback speed changes among double speed, 8 times and 32 times.
- CDs and VCDs: playback speed alternates between 5 times and 16 times.

To return to normal playback

Press ►.

- There is no audio during fast playback except CDs.
- Fast playback speed is the value for a disc with an average bit rate.

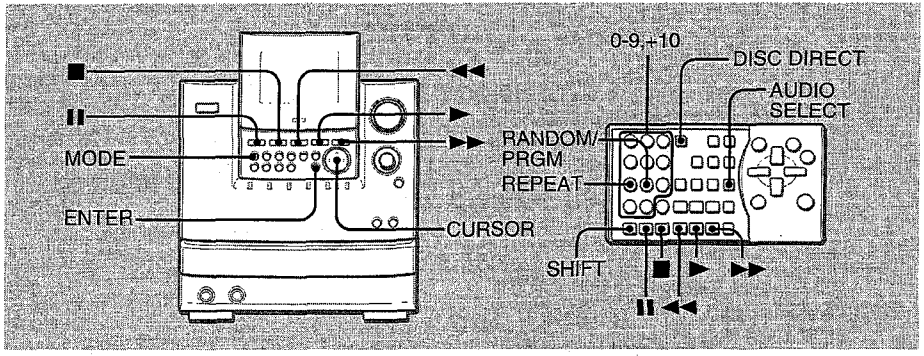
Skipping

Press ◄◄ or ►► repeatedly during playback.
- With each press of ►►, the disc position skips to the beginning of the succeeding tracks (CDs/VCDs) or chapters (DVDs).
- With each press of ◄◄, the disc position skips back first to the beginning of the current track, then to the previous tracks (CDs/VCDs) or chapters (DVDs).

- Skipping may be disabled on some DVDs.
- For VCDs with PBC, turn off PBC first (see "Disabling PBC", page 14).

En

En



Frame advance (DVDs and VCDs only)

1 Press ❚❚ to pause playback.

2 Press ❚❚ repeatedly to advance frames.

To return to normal playback

Press ►.

- There is no audio during frame advance.

Slow playback (DVDs and VCDs only)

1 Press ❚❚ to pause playback.

2 Hold down ◄◄ or ►►.

To change the slow forward playback speed

Hold down ►► repeatedly.

The slow playback speed changes among 1/30, 1/15, and 1/5.

- Only 1/15 speed is available for slow reverse playback.

To return to normal playback

Press ►.

- There is no audio during slow playback.

Repeat playback

DVDs

Press SHIFT+REPEAT repeatedly on the remote control during playback.

With each press, the repeat playback mode changes as follows:

- CHAPTER: repeats the current chapter.
- TITLE: repeats the current title.
- OFF: cancels repeat mode (normal playback)

"⊂" appears on the unit's display when the unit is in the repeat mode and flashes in the chapter repeat mode.

CD and VCDs

1 Press SHIFT+REPEAT repeatedly on the remote control.

With each press, the repeat playback mode changes as follows:

- ALL: repeats all tracks on a selected disc or on all discs.
- TRACK: repeats the current track.
- OFF: cancels repeat mode (normal playback)

"⊂" appears on the unit's display when the unit is in the repeat mode and flashes in the track repeat mode.

2 Start playback.

If you selected "ALL", either press ► to play all discs repeatedly, or press DISC DIRECT, then press a numbered button (1-3) for the disc to play a disc repeatedly.

- For VCDs with PBC, turn off PBC first (see "Disabling PBC", page 14).

To cancel repeat playback

Press SHIFT+REPEAT on the remote control repeatedly until "⊂" disappears on the unit's display.

To repeat playback of selected tracks

Program the tracks with the programmed playback function, and then press REPEAT to repeat playback of the programmed tracks.

Programmed playback (CDs and VCDs only)

Up to 30 tracks can be played back in the order of selection.

1 Press SHIFT+RANDOM/PRGM on the remote control in stop mode.
"PROGRAM" appears on the TV screen and "PRGM" appears on the unit's display.

2 Press DISC DIRECT, then press a numbered button (1-3) to select a disc.
Press the disc number within 3 seconds after pressing DISC DIRECT. Go to the next step when the tray stops rotating.

3 Press the numbered button(s) on the remote control for the track to be played first.
To select track 12, press +10, 2.
To select track 20, press +10, +10, 0.

4 Repeat steps 2 and 3 to program other tracks.

5 Press ► to start playback.
The programmed tracks are played back in the order of entry.
When programmed playback is complete or when ■ is pressed to stop playback, the program display reappears.

- For VCDs with PBC, turn off PBC first (see "Disabling PBC", page 14).

To stop programmed playback
Press ■.
At this point, the program is not cleared. Pressing ► will restart programmed playback from the first programmed track.

To clear the program
Press ■ again during stop.

- The program is also cleared when the disc tray is opened, the function is switched or the power is turned off.

To check the program
Press ►► during stop.
With each press, the program number and the track number are shown progressively on the unit's display.

To add tracks to the program
Repeat steps 2 and 3 in stop mode. The new tracks are added to the end of the program .

To skip tracks
Press ◄◄ or ►► repeatedly.
Playback skips to the previous or the succeeding track(s) within the program.

Random playback (CDs and VCDs only)

Tracks from a selected disc or from all discs can be played back randomly.

1 Press SHIFT+RANDOM/PRGM repeatedly on the remote control to display "RANDOM" on the unit's display.
"RANDOM" appears on the TV screen.

2 To play all discs, press ►.
To play a single disc, press DISC DIRECT, then press a numbered button (1-3) to select a disc.
Press the disc number within 3 seconds after pressing DISC DIRECT.

To cancel random playback
Press SHIFT+RANDOM/PRGM once on the remote control.
"OFF" appears on the TV screen and "RANDOM" disappears on the unit's display.

- For VCDs with PBC, turn off PBC first (see "Disabling PBC", page 14).

Blank skip (CDs and VCDs only)

Silent portions between tracks can be skipped during playback.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "CD BLANK".

3 Press ◄ ►CURSOR to select "SKIP ON".
"▰▰" appears on the display.

4 Press ► to start playback.
The tracks will be played back without interruption, skipping the silent portions between them.

- If a track fades out (ends with the sound level gradually decreasing), the fadeout portion may also be skipped.
- Blank skip may not work with some CDs.
- For VCDs with PBC, turn off PBC first (see "Disabling PBC", page 14).

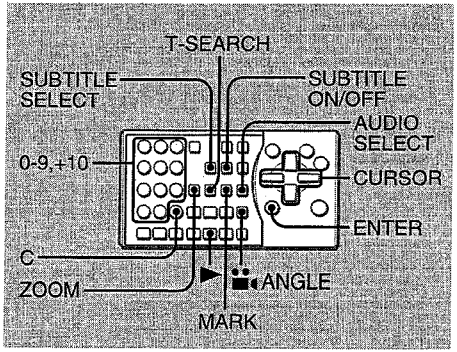
To return to normal playback
Repeat steps 1 to 3 above to select "CD BLANK SKIP OFF". "▰▰" on the display disappears.

Changing audio channels (VCDs)

Use this function when playing Karaoke VCDs or VCDs with different sound tracks in the left and right channels.

Press AUDIO SELECT repeatedly during playback.
With each press, the audio channel changes as follows:
- Lch: left audio channel is output from both front speakers
- Rch: right audio channel is output from both front speakers
- STEREO: normal stereo playback

En



Features unique to DVDs, such as marking, searching, and switching of angles, subtitles, and audio tracks are described here.

Marking

Mark any point in a DVD to be recalled later. You can mark up to 5 discs, each with up to 5 points.

1 Press MARK while playing back the desired point.
"⊳" appears on the TV screen and the unit enters the mark mode. The current mark memory is highlighted by the cursor.

2 Press ◀ ▶CURSOR if needed to move the cursor to the desired mark memory.
A numbered mark memory is occupied. An asterisk appears on a vacant one.

3 Press ENTER.
The current point is marked in the mark memory.

4 Press MARK again to exit the mark mode.

To recall a marked point

1 Press MARK to enter the mark mode.
2 Press ◀ ▶CURSOR to move the cursor or press a number button for the memory (1 - 5) to select the desired mark memory.
3 Press ENTER or ►.
Playback starts from the recalled point.

To clear a marked point

1 Press MARK to enter the mark mode.
2 Press ◀ ▶CURSOR to move the cursor or press a number button for the memory (1 - 5) to select the desired mark memory.
3 Press C.
4 Press MARK again to exit the mark mode.

- A marked point is recalled with the subtitle and audio language setting at the time it was marked, regardless of possible later changes to the setting.
- When the 6th DVD disc is inserted, the mark data for the oldest disc is overwritten by the disc information of the new disc and deleted, even when a new point is not memorized.

Title search

Specify the playback location of a DVD by the title number.

1 Press T-SEARCH.

2 Press the numbered button(s) for the desired title number, or press ▲▼CURSOR to change the displayed title number.
Example:
To play title number 2, press 2.
To clear the number, press C.

3 Press ENTER or ►.
Playback begins from the specified title.

- If you specify a title number which does not exist on the disc, the ⃠ symbol is displayed. Repeat from step 1 with a valid title number.

Chapter search

Specify the playback location of a DVD by the chapter number.

1 Press T-SEARCH twice.

2 Press the numbered button(s) for the desired chapter number, or press ▲▼CURSOR to change the displayed chapter number.
Example:
To play chapter number 7, press 7.
To play chapter number 20, press +10, +10, 0.
To clear the number, press C.

3 Press ENTER or ►.
Playback begins from the specified chapter.

- If you specify a chapter number which does not exist in the title, the ⃠ symbol is displayed. Repeat from step 1 with a valid chapter number.

Time search

Locate a point in the title by specifying the time from its beginning.

1 Press T-SEARCH 3 times.

2 Press the numbered buttons to enter the time for the desired point.
Example:
To specify 1:17:30 (1 hour 17 minutes 30 seconds), press 1, 1, 7, 3 and 0.
To specify 0:08:07 (8 minutes 7 seconds), press 8, 0 and 7.
To clear the numbers, press C repeatedly.

3 Press ENTER or ►.
Playback begins from the specified location.

- If you specify a time greater than the length of the title, the ⃠ symbol is displayed. Repeat from step 1 with a valid time.

Note on searching

- Title, chapter, and time search will not work with discs that do not support the search function.

Changing angles

Select the angle to view a scene when playing back DVDs shot with multiangles.

Press ANGLE repeatedly to select a viewing angle.
With each press, the angle will change. The current angle number and the number of available angles are displayed on the TV.

- If you press ANGLE when playing back a scene or a disc without multiple viewing angles, the ⃠ symbol is displayed.

Changing subtitles

Display the subtitles on the screen when playing DVDs which contain them. Subtitle language can be changed if more than one is available.

Press SUBTITLE ON / OFF during playback.
The subtitles will be displayed.The current subtitle number and the number of available subtitles are displayed on the TV.

To change the subtitle language
Press SUBTITLE SELECT to select the desired subtitle language.

To turn off the subtitles
Press SUBTITLE ON / OFF again.

- If you press SUBTITLE ON / OFF when playing a disc without subtitles, the ⃠ symbol is displayed.
- The subtitle language can be changed only if the disc contains more than one subtitle language.
- Some discs have subtitles on by default and does not allow you to remove them.
- The subtitle language first displayed is specified by the subtitle setting (see "Subtitle Language", page 34).

Changing audio tracks

Some DVDs have more than one audio tracks, for example, soundtracks in different languages, or different sound mixes of the same recording. You can change the audio track when playing such discs.

Press AUDIO SELECT during playback.
Each time you press the button, the audio track will change. The current audio track number and the number of available audio tracks are displayed on the TV.

- The audio track can be changed only if the disc contains multiple audio tracks. The number of available audio tracks varies with the disc.
- The audio track language first played is specified by the audio language setting (see "Audio Language", page 33).

Using Karaoke DVD discs
Press AUDIO SELECT repeatedly during playback to select your desired Karaoke track.

- To use a microphone, see "Microphone mixing", page 29.

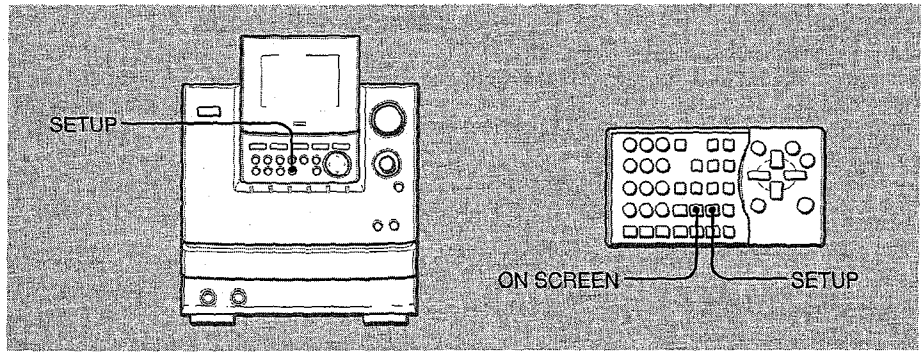
Zoom

Press ZOOM during playback.
The picture around the centre of the screen is enlarged to approximately 4 times.

To move the enlarged picture
Press ▲▼◄►CURSOR.
To return to the centre of the picture, press C.

To cancel zoom
Press ZOOM again.

PLAYING DISCS—STATUS DISPLAY



Various disc playback status information can be displayed on the unit's display and on the TV screen.

On the unit's display

Press SETUP repeatedly during playback.

With each press, the playback time display changes as follows:

CDs and VCDs
- Number and elapsed time of current track
- Number and remaining time of current track
- Elapsed time of current disc
- Remaining time of current disc

DVDs
- Elapsed time of current title
- Remaining time of current title
- Elapsed time of current chapter
- Remaining time of current chapter

- Playback time information cannot be changed during programmed or random playback.
- Playback time information display is not available for VCDs with PBC.

On the TV

Press ON SCREEN repeatedly on the remote control.

Various playback status information appear on the TV screen along with icons that indicate the type of information.

Common to all types of discs

- shows the elapsed playing time during playback; total playing time or the playback resume point during stop
- shows the repeat mode status

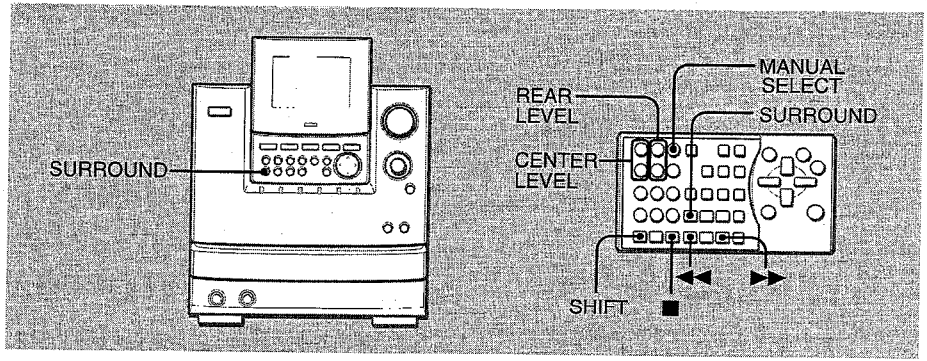
Audio and video CDs only

- shows the disc number and track number
- shows the program/ random playback mode status
- shows if PBC is on or off (VCD only)

DVDs only

- shows the title number and the chapter number
- shows the type of audio track
  DD D: Dolby Digital signal. The numbers below indicate the number of front and rear audio channels. For example,
  "2/0" = [Conventional stereo] two front channels (left and right) and no rear channel
  "3/2.1" [5.1-channel surround] = three front channels (left, right and centre), two rear channels (left rear and right rear) and LFE (Low Frequency Effects).
  dts: DTS signal.
  LPCM: *Linear PCM signal. The sampling frequency* and the D/A conversion bits are displayed below, such as "48k-16b".
  KARAOKE: Karaoke signal. The currently active vocal track is displayed below, such as "VOCAL 1 + 2".
  MPEG: MPEG audio signal.
- shows the current angle number out of the available *number of angles*
- shows the current subtitle number out of the available *number of subtitles*
- shows the occupied mark memory numbers

DOLBY AND DTS SURROUND



This unit comes equipped with a Dolby Digital/Pro Logic decoder and a DTS decoder. With the full 5.1-channel speaker system supplied, Dolby and DTS surround sources can be played back in full scale home theatre sound.

Dolby and DTS surround

Dolby Digital and DTS are two different digital encoding systems of audio signals.

Both Dolby Digital and DTS, in their full configuration, can have a total of "5.1" discrete channels: left, centre and right front channels, separate left and right surround channels, plus a low-frequency effects (LFE) channel, counted as "0.1" channel.

Dolby Digital and DTS tracks may also come in 1 or 2 channels (monaural or stereo, respectively), or in fact, any number of channels within the limit. Sources with 3 or more channels will be refered to hereon as a *multichannel* source.

Dolby Digital software is marked with the DOLBY DIGITAL logo.

DTS software is marked with the DIGITAL dts SURROUND logo.

Dolby Pro Logic is an analogue audio encoding system with four independent channels: left, centre, right, and surround. These four channels are coded into the two tracks of a conventional analogue stereo source.

Dolby Pro Logic software is marked with the DOLBY SURROUND logo.

- Make sure all supplied speakers are placed and connected properly (pages 4 to 6).
- Make sure your TV is connected properly and the appropriate input is selected.

Playing surround sources

1 Select the DVD function and play the Dolby or the DTS surround disc.
DVDs may contain several audio tracks. If necessary, press AUDIO SELECT to select the desired playback track.

2 Press SURROUND.
The Dolby or the DTS decoder is enabled, depending on the source, and the source is played with the surround effect in the "NORMAL" listening mode.
The surround playback mode indicators light up according to the signal type and other conditions (see "Surround playback mode indication", page 22).

To play audio from external video equipment in surround sound

1 Select the VIDEO/AUX function and play the surround video source on the external equipment.
2 Press SURROUND.

To cancel surround playback

Press SURROUND repeatedly until "OFF" is displayed.

To adjust the sound level of the speakers during playback

See "To adjust the speaker level without the test signal", page 22.

- Dolby Digital, DTS, or the Dolby Pro Logic surround system is cancelled when the headphones are plugged in or the MIC level is changed.
- Dolby or DTS Surround sound can only be obtained when playing back a disc recorded in the respective system.
- To play DTS audio CDs, see "Playing discs", page 13.

En

Additional Dolby and DTS surround listening modes

In addition to the NORMAL mode, this unit is also equipped with the PHANTOM and the 3 STEREO modes.

- These modes are to be used when either the centre speaker unit or the surround speaker units are not available, and therefore, not be needed under the normal use of this DVD system.

To change the listening mode

Press SURROUND repeatedly until the desired listening mode is displayed. With each press, the listening mode changes as follows:

- NORMAL
- PHANTOM: select this mode when no centre speaker is connected. The centre channel signals are output through the left and right speakers.
- 3 STEREO: select this mode when no surround speakers are connected. The rear channel signals are output through the front speakers.
- OFF: select this mode when neither the centre nor the surround speakers are connected.Multichannel Dolby Digital or DTS sources are played back in a 2-channel downmix.

Surround playback mode indication

The surround playback mode indicators light up on the display to show the actual surround playback mode.

- "DD DIGITAL" shows that a Dolby Digital source is played back in surround sound.
- "DD PRO LOGIC" shows that a 2-channel source is played back in surround sound.
- "DOWNMIX" shows that a multichannel source is played back in a 2-channel downmix.

Adjusting speaker level

For optimum performance, the sound level of all available channels should be adjusted to suit your listening environment.

The left and right front speakers create the stereo effect.
The centre speaker helps achieve precise sound positioning over a broad sound field.
The surround speakers enhance the "depth" of the sound field.

Adjusting with the test signal

The unit is equipped with a built-in test signal generator for easy balance adjustment of the channels.

1 Press SURROUND repeatedly to select the mode for your speaker configuration.
- For playback with the supplied speakers, select "NORMAL".

2 Hold down SHIFT+MANUAL SELECT on the remote control until "L" flashes in the display.
The test signal travels through the channels one by one. Indication for the currently adjustable channel flashes in the display:
- L: left front speaker
- C: centre speaker
- R: right front speaker
- RS: right surround speaker
- LS: left surround speaker

3 Press ◄◄ or ►► on the remote control to adjust the sound level.
- Left and right front speakers: press ◄◄ to shift the balance to the left and ►► to shift to the right.
- Centre and the surround speakers: press ◄◄ to de-emphasize the channel and ►► to emphasize the channel.

Adjust the sound level so that the test signal from each channel is heard with the same loudness.

- The channel will not change while you are adjusting the sound level.
- A clicking sound might be heard with the test signal during level adjustment. This is not a malfunction.

To stop speaker level adjustment

Press ■.

To adjust the speaker level without the test signal

1 Play the surround source.
2 Press SURROUND repeatedly to select the mode for your speaker configuration.
3 Press SHIFT+MANUAL SELECT repeatedly on the remote control until "L/R" is displayed.
4 Press ◄◄ or ►► on the remote control to adjust the sound level of the front speakers.
5 Repeat steps 3 and 4 to adjust the sound level of the other speakers (S-W: subwoofer, C, RS, or LS).

- SHIFT+CENTER LEVEL + /- and SHIFT+REAR LEVEL +/- buttons are also available for the level adjustment of these channels. LS and RS channels cannot be adjusted separately with the REAR LEVEL buttons.
- Speaker level adjustment is available only for speakers that are activated.
- Speaker level setting is common to Dolby Digital, DTS, and Dolby Pro Logic.

Adjusting delay time

Sounds from the surround speakers and the centre speaker are reproduced a split second after the front speakers for the effect of depth.

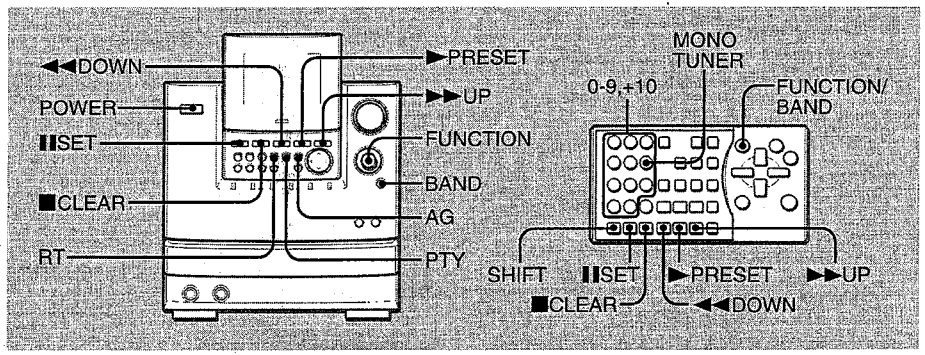
1 Play the surround source.
- Delay time adjustment of the centre channel is available only when playing Dolby Digital or DTS multichannel sources.

2 Press SURROUND repeatedly to select the mode for the speaker configuration.

3 Press SHIFT+MANUAL SELECT repeatedly on the remote control to select delay time to adjust.
- C _MS: delay time setting for centre speaker
- S _MS: delay time setting for surround speakers

4 Press ◄◄ or ►► on the remote control to adjust the delay time.
Centre speaker: adjust the delay time so that screen dialogs are heard clearly and naturally, between 0 ms (milliseconds) and 5 ms in 1 ms steps. The default is "C 0MS" (no delay).
Surround speakers
Dolby Digital/DTS: adjust between 0 and 15 ms in 5 ms steps. The default is "S 5MS".
Dolby Pro Logic: adjust to 15 ms, 20 ms or 30 ms. The default is "S 20MS".

- Delay time setting in Dolby Digital/DTS affects that of Dolby Pro Logic, and vice versa.
- Delay time adjustment is available only for speakers that are activated.



Manual tuning

1 Select the radio function.
Turn FUNCTION on the main unit or press FUNCTION repeatedly on the remote control.

2 Press BAND to select a band (FM, MW or LW).
On the remote control, press SHIFT+BAND.

3 Press ◄◄DOWN or ►►UP to tune in to a station.
"TUNE" is displayed when a station is tuned in.
"((◉))" lights up for FM stereo reception.
"RDS" lights up and the Program Service station name (see "RDS features") is displayed when an RDS station is tuned in.

To search for a station automatically (Auto Search)
Hold down ◄◄DOWN or ►►UP.
The unit searches for a station up or down the band and stops at reception.
To stop the search manually, press ◄◄DOWN or ►►UP.

- Auto Search may not stop at stations with weak signals.

Preset tuning

Preset stations manually or automatically for easy tuning.

Manual presetting

1 Press BAND to select the band.

2 Press ◄◄DOWN or ►►UP to tune in to the desired station.

3 Press ❚❚SET to store the station.
The preset number, beginning from "1", appears on the display.

4 Repeat step 1 to 3 to preset other stations.

- You cannot store more than a total of 32 preset stations. "FULL" is displayed.

En

Automatic presetting

Scans the receivable frequency range and stores tuned stations automatically with the preset number.

1 Select the radio function.
Turn FUNCTION on the main unit or press FUNCTION repeatedly on the remote control.

2 Hold down RT for 4 seconds until "AUTO PRESET" is displayed.

3 Press ❚❚SET.
If ❚❚SET is not pressed within 4 seconds, automatic presetting is not activated.
The tuning indicator is displayed and scanning begins with the FM band.
The frequency and the preset number (beginning from 1) will be displayed when a tuned station is stored.
The display will return to the first stored station when scanning is finished.

- The unit scans the MW and LW bands if preset numbers are still available.
- FM RDS stations take priority over other FM stations if more than 32 stations are available.
- Automatic presetting clears all the previously stored preset stations.
- If identical RDS stations with alternative frequencies are detected, only the station with the stronger signal is stored.
- You cannot store more than a total of 32 preset stations. "FULL" is displayed.

Tuning in to preset stations

On the unit

1 Press BAND to select the band.

2 Press ►PRESET repeatedly.
With each press, the station with the succeeding preset number is tuned in.

On the remote control

1 Press SHIFT+BAND to select the band.

2 Press the numbered button(s) for the preset number of your desired station.
- To select preset number 20, press +10, +10 and 0.
- To select preset number 15, press +10 and 5.

To clear a preset station

1 Tune in to the station by preset tuning.
2 Press ■CLEAR, then press ❚❚SET within 4 seconds.
Preset numbers of preset stations in the band with higher numbers decrease by one.

Adjustments

Antennas

Keep antennas away from metallic objects, electrical equipment and cords.

FM antenna: Extend fully in a T-shape. If receiving condition is poor, connect optional outdoor antenna to FM 75 Ω terminal. Be sure to connect the shield braid of the antenna to the ⏚ terminal.

MW/LW antenna: Rotate to find best reception.

To switch to monaural FM reception

Press SHIFT+MONO TUNER on the remote control. With each press, "MONO" and "STEREO" are displayed alternately on the display.

- When FM stereo reception is poor, switching to monaural reduces noise.

To switch the MW tuning interval

Hold down BAND and press POWER on the unit. With each press, the MW tuning interval alternates between 9 kHz/step and 10 kHz/step.

- The default is 9 kHz/step. Change it only when using the unit in a 10 kHz/step area. Switching MW tuning interval clears all the station presets.

RDS features

The following features are available for FM stations which support RDS (Radio Data System).

- These features do not work for stations that do not support RDS. They may not work properly if reception is weak or contains noise interference.

When an RDS station is received

The program service station name is displayed and the "RDS" indicator lights up on the display.

Displaying radio text (RT)

Shows text information such as the title of the currently playing song.

Press RT during RDS reception.

- If the tuned station is not transmitting text information, "NO RT" is displayed.

To return to the regular display

Press RT again.

Displaying program type (PTY)

Shows the classification of the broadcast's content type.

Press PTY during RDS reception.
The program type will be displayed for 4 seconds.

- If PTY data is not detected or is not recognized by this unit, "NO PTY" or "UNDEFINE" will be displayed.

This unit recognizes the following PTYs

TRAFFIC*, NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M, ROCK M, EASY M (easy listening music), LIGHT M (light classical music), CLASSICS, OTHER M, WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M(national music), OLDIES, FOLK M, DOCUMENT, TEST, and ALARM.
*This unit identifies "TRAFFIC" as a program type.

PTY search

Searches for a preset station currently broadcasting your desired type of program.

1 Press PTY.

2 Press ◄◄DOWN or ►►UP to select a desired program type, and press PTY again.
The unit searches the preset stations and tunes in to a broadcast with the selected program type.

- If a broadcast with the selected program type is not found, "NOT FOUND" is displayed.
- PTY search searches only preset stations. Preset stations if necessary.
- If there is no button input for 4 seconds in step 2, the search is cancelled.
- When the "TRAFFIC" PTY is selected, the unit searches for a station which regularly broadcasts traffic announcements. If the detected station is not broadcasting traffic announcements at that moment, you should hear them in a while.

EON search

Continuously searches preset stations until it finds one with the desired PTY.

1 Tune in to an EON station.
"EON" lights up on the display if the current station is an EON station.
- EON search is available only if the current station is an EON (Enhanced Other Networks information) station, which contains cross-reference information of other EON stations in its signal.

2 Press PTY to display the program type.

3 Press ◄◄DOWN or ►►UP to select a desired program type, and press ❚❚.
- "EON ON" is displayed for 3 seconds and "EON" flashes on the display.
- While the current station is broadcasting your desired PTY, the unit remains in the EON search standby mode.
- If the current station is not broadcasting your desired PTY, EON search is activated. The unit continuously searches other EON stations until it finds one with your desired PTY.
- When the unit finds a station and switches to it, "EON" flashes rapidly.
- When the PTY of the switched to station changes, the unit switches back to the original station.
- The unit repeats the above until EON search is turned off.

- EON search searches only preset stations. Preset stations if necessary.
- If there is no button input for 4 seconds in step 3, the search is cancelled.

To manually return to the previously tuned station from the switched to station
Press ►. EON search is cancelled.

To cancel EON search
1 Hold down PTY so that "EON PTY" and the selected PTY are displayed alternately.
2 With PTY held down, press ❚❚. "EON OFF" is displayed.

- EON search setting is retained through power-off.

Auto graphic equalizer (AG)

Automatically selects a sound equalization curve to match the program type of the current broadcast.

Press AG during RDS reception.
"AG" lights up on the display and the function is activated.
For example, "POP" curve is selected for POP M program type.

To cancel the AG function
Press AG again so that "AG" disappears.

Clock-time (CT)

Automatically sets and updates the clock on the hour every hour using the clock signals transmitted by RDS stations.

1 With the unit on, press SHIFT+CLOCK on the remote control to display the clock.

2 Press RT repeatedly to select "CT ON".
The function is activated.

3 Tune in to an RDS station.
The clock is adjusted whenever the unit is receiving an RDS station on the hour.

To deactivate the CT function
Repeat steps 1 and 2 above to select "CT OFF".

- Deactivate the function and adjust the clock manually if the clock signals from RDS stations are inaccurate, or if you are receiving RDS stations from a different time zone.

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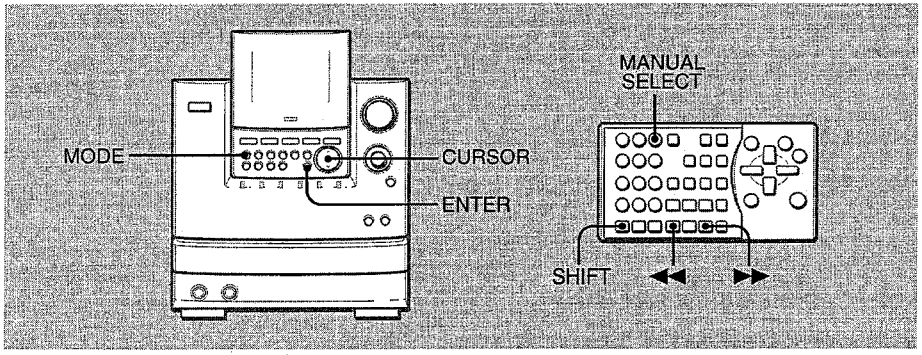


Graphic equalizer

Selects a sound equalization curve to match the music type.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "GEQ".

3 Press ◀▶CURSOR repeatedly to select one of the three equalization curves and press ENTER.
If there is no CURSOR operation within 4 seconds, the setting is cancelled.
- ROCK: powerful sound emphasizing treble and bass
- POP: more presence in the vocals and midrange
- CLASSIC: enriched sound with heavy bass and fine treble

• The current GEQ mode is displayed on the Window.

To cancel equalization
Repeat step 1, 2 and 3 above and select "GEQ OFF".

Super T-BASS

Emphasizes low frequencies for a powerful sound.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "T-BASS".

3 Press ◀▶CURSOR repeatedly to select one of the three enphasis levels or the off position and press ENTER.
If there is no CURSOR operation within 4 seconds, the setting is cancelled.

• When the sound becomes distorted with the T-BASS effect, cancel it.

BBE

Enhances high frequency for sound clarity.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "BBE".

3 Press ◀▶CURSOR repeatedly to select one of the three enhancement levels or the off position and press ENTER.
If there is no CURSOR operation within 4 seconds, the setting is cancelled.

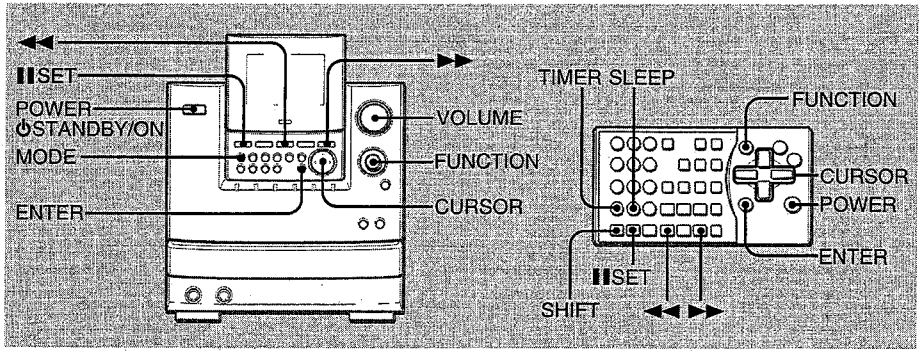
• When the sound becomes distorted with the BBE effect, cancel it.
• The BBE system cannot be turned on when surround playback is activated.

Adjusting left/right speaker balance

1 Press SHIFT+MANUAL SELECT repeatedly on the remote control until "L/R" is displayed.

2 Press ◀◀ or ▶▶ on the remote control to adjust the balance.
Press within 4 seconds.

• When surround playback is activated, level adjustment of other speaker channels is available as well. See "Adjusting speaker level", page 22.



Sleep timer

Turns off the unit automatically after a specified time.

1 Press SHIFT+SLEEP.
"SLEEP" appears on the display.

2 Press ◀◀, ▶▶ or ◀▶CURSOR repeatedly to set the sleep timer duration.
With each press, the timer duration changes in 5-minute steps between 5 to 240 minutes. If there is no button input for 4 seconds, the current setting is entered automatically. The unit turns off after the selected time.

To check the remaining time until the unit turns off
Press SHIFT+SLEEP. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Press SHIFT+SLEEP twice so that "SLEEP oFF" is displayed.

Timer playback

Turns on the unit at a specified time for the specified duration. Make sure the clock is set correctly.

1 Select the desired playback source.
Turn FUNCTION on the main unit or press FUNCTION repeatedly on the remote control.

2 Press MODE to enter the setting mode.
On the remote control, press SHIFT+TIMER to display "⏲PLAY", then go to step 5.

3 Press MODE or ▲▼CURSOR repeatedly to display "TIMER".

4 Press ◀▶CURSOR to select "⏲PLAY" and press ENTER.
"⏲" indicator lights up, and the timer-on time and the source name appear alternately on the display.

5 Press ◀◀, ▶▶ or ◀▶CURSOR repeatedly to set the timer-on time and press ❚❚SET or ENTER.

6 Press ◀◀, ▶▶ or ◀▶CURSOR repeatedly to set the timer-activated duration and press ❚❚SET or ENTER.
With each press, the timer-activated duration changes in 5-minute steps between 5 to 240 minutes.
If there is no button input for 4 seconds, the current setting is entered automatically.

7 Adjust the volume and tone for timed playback.
If the volume level is set to 21 or higher, it is automatically turned down to 20 when the unit is turned on by the timer.

8 Prepare the source.
To play disc(s), load the disc(s). Select the desired disc if necessary.
To play the radio, select the band and tune in to the desired station.
To play external equipment connected to the the VIDEO/AUX or MD jacks, set an external timer for the equipment so that its playback begins at the same time.

9 Press POWER ⏻STANDBY/ON to turn the unit off.
"⏲" remains on the display to indicate the timer standby mode.
At timer-on time, the unit turns on and plays the selected source. After the specified timer-activated duration, the unit turns off again.

- For some steps above, setting will be cancelled if you do not proceed to the next step within a few seconds. Repeat the steps if necessary.
- Timer playback will not begin unless the unit is turned off first.
- Connected equipment cannot be turned on or off by the built-in timer of this unit. Use an external timer.

To display the timer setting

Press SHIFT+TIMER to display "⏲PLAY".

The timer-on time, the source and the timer-activated duration are displayed for 6 seconds.

To change the timer setting

Re-set the timer again.

- Timer setting can be displayed, and can be changed if desired, even while the unit is turned off. To enter the timer setting mode, press SHIFT+TIMER to display the setting and press ENTER or ❚❚.

To cancel the timer

1 Press MODE to enter the setting mode.

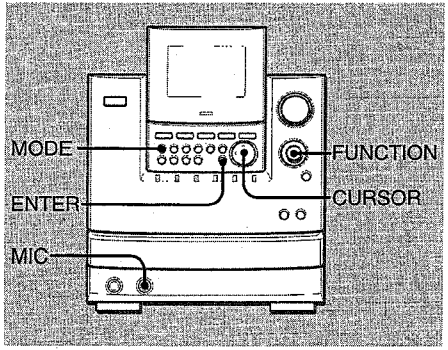
2 Press MODE or ▲▼CURSOR repeatedly to display "TIMER".

3 Press ◀▶CURSOR to select "⏲OFF" and press ENTER. "⏲" disappears from the display.

On the remote control, press SHIFT+TIMER repeatedly to display "⏲OFF".

- Your timer setting is retained even if the timer is cancelled. Next time the timer is activated, you can change your previous setting, or simply use the same setting again.

MIC MIXING AND OTHER ADJUSTMENTS



Microphone mixing

An optional microphone with a standard plug (ø6.3 mm, 1/4 inch) can be connected to this unit to sing along to music sources.

Using the microphone

1 Connect your microphone to the MIC jack.

2 Turn FUNCTION to select the source to be mixed and play the source.

3 Adjust the volume and tone of the source.

Adjusting microphone level

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "MIC".

3 Press ◀▶CURSOR repeatedly to adjust the microphone volume and press ENTER.
The microphone level can be selected from "OFF" to "MAX" (7).

Adjusting echo level

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "ECHO".

3 Press ◀▶CURSOR repeatedly to adjust the echo level and press ENTER.
The echo level can be selected from "OFF" to "MAX" (7).

When the microphone is not in use

Set the mic and echo level to "OFF" and remove the microphone from MIC jack.

- When the function is changed, or Dolby or DTS surround is turned on, the mic and echo level are set to OFF.
- When the MIC volume is changed, Dolby and DTS surround are automatically cancelled.
- If a microphone is held too near the speakers, a howling sound may be produced. Hold the microphone away from the speakers or decrease the mic level.
- If sound through the microphone is distorted, decrease the microphone level.

Recommended microphones

Use of unidirectional microphones is recommended to prevent howling. Contact your local Aiwa dealer for details.

Automatic demonstration display

The automatic demonstration, which appears on the display while the unit is turned off, is cancelled when the clock is set.

To manually activate the demonstration

Press DISC PLAY/BAND when the unit is turned off.
Press again to switch back to the clock display.

Power economizing mode

Set the unit to either of the two power economizing modes to cut down power consumption when the unit is idle.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "ECO MODE".

3 Press ◀▶CURSOR repeatedly to select "ON" or "AUTO" and press ENTER.
- ECO ON:
The display blacks out when the unit is turned off. The red indicator lights near the POWER button lights up, if the clock is set, to indicate that the unit is in the standby mode.
- ECO AUTO:
The unit automatically turns itself off if the unit is left unoperated for 10 minutes with no sound source playing. Display during power-off is the same as in the ECO ON mode.

To cancel power economizing

Repeat the steps above and select "OFF".
The clock remains displayed even when the power is turned off. The clock icon is displayed if the timer is set.

En

Display colour

Select a setting for the backlight colour of the display.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "COLOR".

3 Press ◀ ▶CURSOR to select "MANUAL", "AUTO", or "SOUND" and press ENTER.
- MANUAL
  The display colour changes to a colour of your choice. Go to step 4.
- AUTO
  The display colour changes to the preset colour for each function as the function is changed.
- SOUND
  The display colour changes in sync with the bass level of the playback sound.

4 If you selected "MANUAL", press ◀ ▶CURSOR repeatedly to select a colour by its number, and press ENTER.

Slide Window setting

Select whether the Slide Window is opened automatically.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "WINDOW".

3 Press ◀ ▶ CURSOR repeatedly to select "MANUAL" or "AUTO" and press ENTER.
- MANUAL
  The Slide Window moves up or down only when you touch WINDOW UP/DOWN.
- AUTO
  Besides manual operation, the Slide Window moves up automatically, for example, when the disc function is selected.

Beep setting

Select to beep or not when the Slide Window is opened or closed.

1 Press MODE to enter the setting mode.

2 Press MODE or ▲▼CURSOR repeatedly to display "BEEP".

3 Press ◀ ▶CURSOR repeatedly to select "ON" or "OFF" and press ENTER.
When "ON" is selected, the unit beeps when the Slide Window moves up or down.

General note on mode setting

Operation time-out

If the CURSOR is not operated or ENTER is not pressed within 4 seconds of the previous step, mode setting is cancelled. Repeat the steps if necessary.

To check your current setting

1 Press MODE to enter the setting mode.
2 Press MODE or ▲▼CURSOR repeatedly to display the setting to be checked.
3 Press ENTER. The current setting will be displayed for 4 seconds.

Connection besides those described in section "Preparation" are described here.

- See section "Parts and controls" for illustration.
- Connecting cords for optional equipment are not supplied.
- Refer also to the operating instructions of the connected equipment.
- Consult your local Aiwa dealer for optional equipment.
- To use a microphone, see "Microphone mixing", page 29.

VIDEO/AUX jacks

Accepts analogue audio signal input from connected equipment.
Connect to the line output jacks of VCRs, LD players, turntables, etc. with an optional audio connecting cord with RCA phono plugs (red plug to R jack, white plug to L jack).

- By connecting the audio output of a VCR, you can play sound tracks of Dolby Pro Logic videos through this system in surround sound. See section "Dolby and DTS surround".
- When connecting a turntable, use one equipped with a built-in equalizer amplifier.

To select input to these jacks
Turn FUNCTION on the main unit, or press FUNCTION repeatedly on the remote control to select the VIDEO/AUX function.

To change the name displayed for this function
1 Select the VIDEO/AUX function.
2 Hold down MODE and press POWER repeatedly.
The name changes among "VIDEO", "AUX", and "TV".

To change input level
1 Select the VIDEO/AUX function.
2 Press ◄◄ DOWN or ►► UP repeatedly.
The input level changes from "MIN" to "MAX" (7).

- When the "OVER LEVEL" indicator lights up on the display, the input level is too high. Turn down the input level.

MD jacks

Accepts analogue audio signal input from connected equipment.
Connect to the line output jacks of MD decks, etc. with an optional audio connecting cord with RCA phono plugs (red plug to R jack, white plug to L jack).

- Audio output from playback/recording equipment such as MD recorders should be connected to the MD jacks instead of the VIDEO/AUX jacks. When the MD function is selected, output from the LINE OUT jacks is disabled to avoid a possible signal loop.

To select input to these jacks
Turn FUNCTION on the main unit, or press FUNCTION repeatedly on the remote control to select the MD function.

To change input level
1 Select the MD function.
2 Press ◄◄ DOWN or ►► UP repeatedly.
The input level changes from "MIN" to "MAX" (7).

- When the "OVER LEVEL" indicator lights up on the display, the input level is too high. Turn down the input level.

LINE OUT jacks

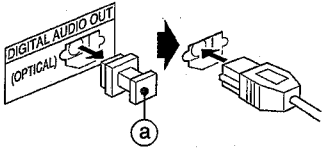
Outputs analogue audio signals to connected equipment.
Connect to the line input jacks of audio equipment with an optional audio connecting cord with RCA phono plugs (red plug to R jack, white plug to L jack).

- Do not connect the same equipment to the LINE OUT jacks and VIDEO/AUX jacks of this unit. Noise will be generated by a signal loop which may damage the equipment.
- Connecting the LINE OUT jacks to a TV may cause noise on this unit, depending on the TV. Disconnect the LINE OUT jacks in such cases.
- When playing DTS CDs in the DTS mode, noise may be output at the begininng of playback.
- When playing/recording the DTS source through the equipment connected to the LINE OUT jacks, cancel the surround playback (See page 21).

DIGITAL AUDIO OUT (OPTICAL) jack

Outputs digital audio signals to connected equipment.
Connect to the optical input jacks of digital audio equipment with an optional optical cord.

- Remove the dust cap ⓐ from the jack before connection. Reattach the cap when the jack is not used.



CAUTION!! When connecting to digital equipment without a Dolby Digital or a DTS decoder
NEVER play a Dolby Digital source through connected digital equipment without a Dolby Digital decoder.
Similarly, NEVER play a DTS source through connected digital equipment without a DTS decoder.
Doing so will generate high level noise which may be harmful to your ears and damage the speakers.

- When recording a VCD through this jack, track numbers are not copied and one long track will be made.
- When a disc with 96 kHz sampling frequency rate is played back, output from the DIGITAL AUDIO OUT (OPTICAL) jack is automatically converted to 48 kHz.

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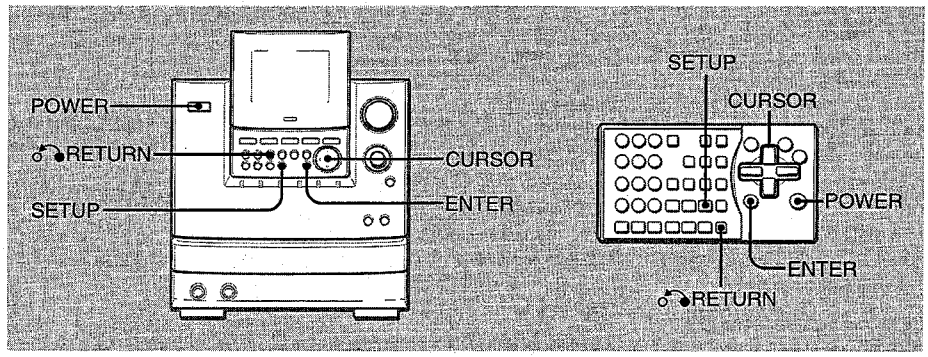
CUSTOMIZING DVD SETUP



Various TV/DVD settings can be changed as needed or preferred.

- The language in which this menu is displayed can be selected from 6 available languages (see "Menu Language", page 33). The menu in English is used here for explanation.

Overview of the Setup Menu

There are 4 major menu items that can be adjusted:

On-screen Menu
- Sets the on-screen guide display on or off.
- Selects a background colour for the TV screen.
- Selects the language for this setup menu and the on-screen guide messages.

Disc Languages
Selects the preferred audio soundtrack language, subtitle language, and menu language for DVD playback.

TV Aspect
Sets the aspect ratio of the video signal sent to your connected TV set.

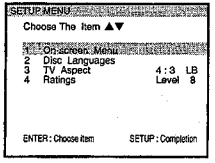
Ratings
Sets the rating limit of DVDs allowed to play back on this unit when playing discs with restriction level encoding.

The default "TV Aspect" setting has to be changed *if you are connecting to a 16:9 (wide) ratio TV set.*
Any other setting can be changed or kept as is, according to your preferences.

Basic menu operation

Basic operation of the SETUP MENU is described here.

1 Select the DVD function and press SETUP while the player is stopped.
The "SETUP MENU" screen is displayed.



2 Press ▲▼CURSOR to move the cursor (the yellow-highlighted area) to the setting to be changed.

3 Press ENTER.
The menu screen for the item you selected will be displayed.

4 Press ▲▼CURSOR to move the cursor to the desired setting.

5 Press ENTER to enter your selection.
The selected setting is entered and the display returns to the main setup screen of step 1.
For some settings, however, the screen will display a more detailed menu. Follow the directions shown on the screen.

6 Press SETUP to exit the setup menu.

To return to the previous screen
Press ↶RETURN.

To exit the setup menu
Press SETUP.

To confirm your setting

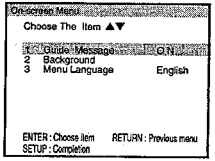
1 Follow steps 1 to 4 above to display the setting you want to confirm.

2 Press SETUP to exit the setup menu without making changes.

- If you pressed ↶RETURN or SETUP before pressing ENTER to enter your selection, you return to the previous screen or exit the setup menu, respectively, without entering your selection. If you are uncertain of your present setup, follow the steps above to confirm your setting.
- Your setting is not saved in the unit's memory until you press POWER to turn off the power. If the unit suffers a power interruption before it is turned off with POWER, setting will revert to the previous one when the unit is turned on the next time.
- While the setup screen is displayed, you will not be able to perform other operations on the DVD player. Press SETUP again to exit the setup screen first.
- Setup is cancelled if the disc tray is opened.

On-Screen menu

Set or select the on-screen guide display, background colour for the TV screen, and the language for this setup menu and the on-screen guides.



Guide Message

Sets whether or not to show the on-screen guide display at the upper right corner of the TV screen.
The default is "ON".

1 Select "On-screen Menu" in the "SETUP MENU" and press ENTER.

2 Select "Guide Message" and press ENTER.

3 Select the desired setting and press ENTER.

4 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

Background

Sets the background colour of the TV screen while stopped.
The default is "Wallpaper".

1 Select "On-screen Menu" in the "SETUP MENU" and press ENTER.

2 Select "Background" and press ENTER.

3 Select the desired setting and press ENTER.

4 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

Menu Language

Selects the language in which this setup menu and the on-screen guide messages are displayed.
The default is "English".

1 Select "On-screen Menu" in the "SETUP MENU" and press ENTER.

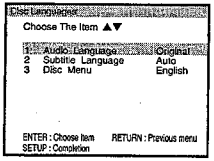
2 Select "Menu Language"and press ENTER.

3 Select the desired language and press ENTER.

4 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

Disc Languages

Selects the preferred audio sound track language, subtitle language and menu screen language for DVD playback.



Audio Language

The default is "Original".

1 Select "Disc Languages" in the "SETUP MENU" and press ENTER.

2 Select "Audio language" and press ENTER.

En

3 Select the desired language and press ENTER.
- "Original": plays discs in the language specified as the default on the disc. *Go to step 5.*
- "English", "German", "French", "Spanish", "Dutch", "Italian": plays discs in the selected language. *Go to step 5.*
- "Others": language code setting screen appears to select any other preferred language. *Go to step 4.*

4 If "Others" is selected in step 3, enter a four-digit language code with ▲▼CURSOR and numbered buttons, and press ENTER.
Refer to the list of language codes on page 36.
To move the cursor, use ◀▶CURSOR.

5 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

- If your preferred language does not exist on the disc, the disc's default language will be used.
- To manually change the audio tracks, see "Changing audio tracks", page 19.

Subtitle Language

The default is "Auto".

1 Select "Disc Languages" in the "SETUP MENU" and press ENTER.

2 Select "Subtitle Language" and press ENTER.

3 Select the desired language and press ENTER.
- "Auto": automatically displays subtitles in the language specified in the "Audio Language" setting when needed; ex) when the "Audio Language" is set to English, no subtitles are displayed if current audio track is in English; if the audio track is in any other language, English subtitles are displayed.
- "English", "German", "French", "Spanish", "Dutch", "Italian": shows subtitles in the selected language.
- "Others": language code screen appears to select any other language. See step 4 of "Audio Language" setting.

4 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

- If your preferred language does not exist on the disc, the disc's default language will be used.
- To turn subtitles on or off, or to manually change the displayed subtitle language, see "Changing subtitles", page 19.

Disc Menu

The default is "English".

1 Select "Disc Languages" in the "SETUP MENU" and press ENTER.

2 Select "Disc Menu" and press ENTER.

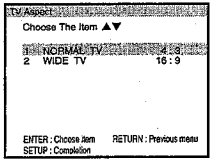
3 Select the desired language and press ENTER.
- "English", "German", "French", "Spanish", "Dutch", "Italian": shows the disc menu in the selected language.
- "Others": language code screen appears to select any other language.See step 4 of "Audio Language" setting.

4 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

- If your preferred language does not exist on the disc, the disc's default language will be used.
- For the operation of the disc menu, see "Playing back with the software specific menu", page 14.

TV Aspect

Sets the aspect ratio of the video signal sent to your connected TV set.



The default is "4:3 LB (letterbox)".
If you are connecting to a 16:9 (wide) ratio TV set, change the setting to "Wide TV".

NORMAL TV

1 Select "TV Aspect" in the "SETUP MENU" and press ENTER.

2 Select "NORMAL TV 4:3" and press ENTER.

3 Select the preferred setting when playing a disc recorded in wide format, and press ENTER.
- "LETTER BOX"
The width of the picture is fit to the TV screen so that no part of the picture is cut off.
- "PAN & SCAN"
The left and/or the right portions of each scene are cut off as specified by the manufacturer, and the picture is diplayed at full screen height.

4 Press SETUP to exit the setup menu.

- The preference setting for the 4:3 representation of wide format software is only effective when playing a disc offering such a choice. Such a disc may be labeled as "16:9 LB PS", where LB stands for "Letter Box" and PS for "Pan & Scan". Other discs, such as those labeled "16:9 LB" or "16:9 PS", are played according to the disc's setting, regardless of your preference.

WIDE TV

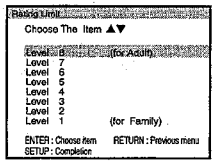
1 Select "TV Aspect" in the "SETUP MENU" and press ENTER.

2 Select "WIDE TV 16:9" and press ENTER.

3 Press SETUP to exit the setup menu.

Ratings

Sets the rating limit to play discs with restriction level encoding.



Setting the rating

The default is "Level 8".

1 Select "Ratings" in the "SETUP MENU" and press ENTER.

2 Select your desired level and press ENTER.
The smaller the number, the higher the level of restriction. For example, setting the rating level to 1 will restrict playback of all discs with a rating level from 2 to 8, either by cutting certain scenes or disabling playback altogether, depending on the disc. Check your disc for details.

3 Select the country code for your country.
The country code needs to be set correctly, since the rating system differs with the country.
When "Other Country" is selected in the country code, the display changes to accept 4-digit numbers. Input a 4-digit country code shown on page 37 in the same way as the input of the language code (page 34).

4 Press ENTER.
The password entry screen is displayed.

5 Use the numbered buttons and ▲▼CURSOR to enter a four-digit password, and press ENTER.
Confirm your password.
Do not forget your password!
If you forgot your password, reset the DVD setup (see "Resetting DVD setup", page 39) and re-set all settings again, including the "Ratings" setting.

6 After confirming the password, press ENTER again.

7 Press SETUP to exit the setup menu.

Changing the setting

Once the ratings settings have been set, you first need to enter the password to change them.

1 Select "Ratings" in the "SETUP MENU" and press ENTER.

2 Input your four-digit password and press ENTER.

3 Select the setting to be changed and press ENTER.
"Unlock Player" resets the rating level, country and password setting to default.

4 If you chose "Unlock player", the message "The player is unlocked" appears on the display. Press ENTER.
For other settings, change to your desired setting and press ENTER.

5 Press ↶RETURN to return to the previous screen or press SETUP to exit the setup menu.

En

Language codes Use these numbers to specify the language in the "Disc Languages" setting (page 33).

En

Code	Language	Code	Language	Code	Language	Code	Language
3738	Abkhazian	4246	Fiji	4850	Lingala	5545	Singhalese
3737	Afar	4845	Finnish	4856	Lithuanian	5547	Slovak
3742	Afrikaans	4254	French	4947	Macedonian	5548	Slovenian
5553	Albanian	4261	Frisian	4943	Malagasy	5551	Somali
3749	Amharic	4348	Galician	4955	Malay	4155	Spanish
3754	Arabic	4737	Georgian	4948	Malayalam	5557	Sundanese
4461	Armenian	4041	German	4956	Maltese	5559	Swahili
3755	Assamese	4148	Greek	4945	Maori	5558	Swedish
3760	Aymara	4748	Greenlandic	4954	Marathi	5648	Tagalog
3762	Azerbaijani	4350	Guarani	4951	Moldavian	5643	Tajik
3837	Bashkir	4357	Gujarati	4950	Mongolian	5637	Tamil
4157	Basque	4437	Hausa	5037	Nauru	5656	Tatar
3850	Bengali; Bangla	4559	Hebrew	5041	Nepali	5641	Telugu
4062	Bhutani	4445	Hindi	5051	Norwegian	5644	Thai
3844	Bihari	4457	Hungarian	5154	Oriya	3851	Tibetan
3854	Breton	4555	Icelandic	5255	Pashto; Pushto	5645	Tigrinya
3843	Bulgarian	4550	Indonesian	4237	Persian	5651	Tonga
4961	Burmese	4537	Interlingua	5248	Polish	5654	Turkish
3841	Byelorussian	4337	Irish	5256	Portuguese	5647	Turkmen
4749	Cambodian	4556	Italian	5237	Punjabi	5659	Twi
3937	Catalan	4637	Japanese	5357	Quechua	5747	Ukrainian
6244	Chinese	4659	Javanese	5449	Rhaeto-Romance	5754	Urdu
3951	Corsican	4750	Kannada	5451	Romanian	5762	Uzbek
4454	Croatian	4755	Kashmiri	5457	Russian	5845	Vietnamese
3955	Czech	4747	Kazakh	5549	Samoan	5851	Volapük
4037	Danish	4761	Kirghiz	5537	Sanskrit	3961	Welsh
5048	Dutch	4751	Korean	4340	Scots Gaelic	5951	Wolof
4150	English	4757	Kurdish	5554	Serbian	6044	Xhosa
4151	Esperanto	4851	Laothian	5544	Serbo-Croatian	4645	Yiddish
4156	Estonian	4837	Latin	5550	Shona	6151	Yoruba
4251	Faroese	4858	Latvian; Lettish	5540	Sindhi	6257	Zulu

Country codes

Use these numbers to specify the country in the "Ratings" setting (page 35).

Code	Country	Code	Country	Code	Country	Code	Country
6570	AFGHANISTAN	6678	BRUNEI DARUSSALAM	6971	EGYPT	7277	HEARD ISLAND AND MCDONALD ISLANDS
6576	ALBANIA	6671	BULGARIA	8386	EL SALVADOR	7278	HONDURAS
6890	ALGERIA	6670	BURKINA FASO	7181	EQUATORIAL GUINEA	7275	HONG KONG
6583	AMERICAN SAMOA	6673	BURUNDI	6982	ERITREA	7285	HUNGARY
6568	ANDORRA	7572	CAMBODIA	6969	ESTONIA	7383	ICELAND
6579	ANGOLA	6777	CAMEROON	6984	ETHIOPIA	7378	INDIA
6573	ANGUILLA	6765	CANADA	7075	FALKLAND ISLANDS (MALVINAS)	7368	INDONESIA
6581	ANTARCTICA	6786	CAPE VERDE	7079	FAROE ISLANDS	7382	IRAN (ISLAMIC REPUBLIC OF)
6571	ANTIGUA AND BARBUDA	7589	CAYMAN ISLANDS	7074	FIJI	7381	IRAQ
6582	ARGENTINA	6770	CENTRAL AFRICAN REPUBLIC	7073	FINLAND	7369	IRELAND
6577	ARMENIA	8468	CHAD	7082	FRANCE	7376	ISRAEL
6587	ARUBA	6776	CHILE	7088	FRANCE, METROPOLITAN	7384	ITALY
6585	AUSTRALIA	6778	CHINA	7170	FRENCH GUIANA	7477	JAMAICA
6584	AUSTRIA	6788	CHRISTMAS ISLAND	8070	FRENCH POLYNESIA	7480	JAPAN
6590	AZERBAIJAN	6767	COCOS (KEELING) ISLAND	8470	FRENCH SOUTHERN TERRITORIES	7479	JORDAN
6683	BAHAMAS	6779	COLOMBIA	7165	GABON	7590	KAZAKHSTAN
6672	BAHRAIN	7577	COMOROS	7177	GAMBIA	7569	KENYA
6668	BANGLADESH	6771	CONGO	7169	GEORGIA	7573	KIRIBATI
6666	BARBADOS	6775	COOK ISLANDS	6869	GERMANY	7580	KOREA,DEMOCRATIC PEOPLE'S REPUBLIC OF
6689	BELARUS	6782	COSTA RICA	7172	GHANA	7582	KOREA, REPUBLIC OF
6669	BELGIUM	6773	COTE D'IVOIRE	7173	GIBRALTAR	7587	KUWAIT
6690	BELIZE	7282	CROATIA	7182	GREECE	7571	KYRGYZSTAN
6674	BENIN	6785	CUBA	7176	GREENLAND	7665	LAO PEOPLE'S DEMOCRATIC REPUBLIC
6677	BERMUDA	6789	CYPRUS	7168	GRENADA	7686	LATVIA
6684	BHUTAN	6790	CZECH REPUBLIC	7180	GUADELOUPE	7666	LEBANON
6679	BOLIVIA	6875	DENMARK	7185	GUAM	7683	LESOTHO
6665	BOSNIA AND HERZEGOVINA	6874	DJIBOUTI	7184	GUATEMALA	7682	LIBERIA
6687	BOTSWANA	6877	DOMINICA	7178	GUINEA	7689	LIBYAN ARAB JAMAHIRIYA
6686	BOUVET ISLAND	6879	DOMINICAN REPUBLIC	7187	GUNEA-BISSAU	7673	LIECHTENSTEIN
6682	BRAZIL	8480	EAST TIMOR	7189	GUYANA	7684	LITHUANIA
7379	BRITISH INDIAN OCEAN TERRITORY	6967	ECUADOR	7284	HAITI	7685	LUXEMBOURG

Code	Country	Code	Country	Code	Country	Code	Country
7779	MACAU	7885	NIUE	8367	SEYCHELLES	8571	UGANDA
7771	MADAGASCAR	7870	NORFOLK ISLAND	8376	SIERRA LEONE	8565	UKRAINE
7787	MALAWI	7780	NORTHERN MARIANA ISLANDS	8371	SINGAPORE	6569	UNITED ARAB EMIRATES
7789	MALAYSIA	7879	NORWAY	8375	SLOVAKIA	7166	UNITED KINGDOM
7786	MALDIVES	7977	OMAN	8373	SLOVENIA	8583	UNITED STATES
7776	MALI	8075	PAKISTAN	8366	SOLOMON ISLANDS	8577	UNITED STATES MINOR OUTLYING ISLANDS
7784	MALTA	8087	PALAU	8379	SOMALIA	8589	URUGUAY
7772	MARSHALL ISLANDS	8065	PANAMA	9065	SOUTH AFRICA	8590	UZBEKISTAN
7781	MARTINIQUE	8071	PAPUA NEW GUINEA	7183	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	8685	VANUATU
7782	MAURITANIA	8089	PARAGUAY	6983	SPAIN	8665	VATICAN CITY STATE (HOLY STATE)
7785	MAURITIUS	8069	PERU	7675	SRI LANKA	8669	VENEZUELA
8984	MAYOTTE	8072	PHILIPPINES	8368	SUDAN	8678	VIET NAM
7788	MEXICO	8078	PITCAIRN	8382	SURINAME	8671	VIRGIN ISLANDS (BRITISH)
7077	MICRONESIA (FEDERATED STATES OF)	8076	POLAND	8374	SVALBARD AND JAN MEYEN	8673	VIRGIN ISLANDS (U.S.)
7768	MOLDOVA, REPUBLIC OF	8084	PORTUGAL	8390	SWAZILAND	8770	WALLIS AND FUTUNA ISLANDS
7767	MONACO	8082	PUERTO RICO	8369	SWEDEN	6972	WESTERN SAHARA
7778	MONGOLIA	8165	QATAR	6772	SWITZERLAND	8969	YEMEN
7783	MONTSERRAT	8269	REUNION	8389	SYRIAN ARAB REPUBLIC	8985	YUGOSLAVIA
7765	MOROCCO	8279	ROMANIA	8487	TAIWAN, PROVINCE OF CHINA	9082	ZAIRE
7790	MOZAMBIQUE	8285	RUSSIAN FEDERATION	8474	TAJIKISTAN	9077	ZAMBIA
7777	MYANMAR	8287	RWANDA	8490	TANZANIA, UNITED REPUBLIC OF	9087	ZIMBABWE
7865	NAMIBIA	8372	SAINT HELENA	8472	THAILAND		
7882	NAURU	7578	SAINT KITTS AND NEVIS	8471	TOGO		
7880	NEPAL	7667	SAINT LUCIA	8475	TOKELAU		
7876	NETHERLANDS	8077	SAINT PIERRE AND MIQUELON	8479	TONGA		
6578	NETHERLANDS ANTILLES	8667	SAINT VINCENT AND THE GRENADINES	8484	TRINIDAD AND TOBAGO		
7867	NEW CALEDONIA	8783	SAMOA	8478	TUNISIA		
7890	NEW ZEALAND	8377	SAN MARINO	8482	TURKEY		
7873	NICARAGUA	8384	SAO TOME AND PRINCIPE	8477	TURKMENISTAN		
7869	NIGER	8365	SAUDI ARABIA	8467	TURKS AND CACOS ISLANDS		
7871	NIGERIA	8378	SENEGAL	8486	TUVALU		

Care and maintenance

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet

Use a soft and dry cloth. If the unit surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

Care of Discs

When a disc becomes dirty, wipe it from the centre out with a cleaning cloth. After playing a disc, store it in its case. Do not keep it in hot or humid places.

Troubleshooting

If your unit fails to perform properly, check the following guide and the relevant sections of the Operating Instructions.

There is no sound.

- Check speakers and AC power connection.

The unit shuts off suddenly.

- Possibly a short circuit in the speaker terminals. Disconnect the AC power cord from the wall socket and re-connect the speaker cords correctly.

The unit blacks out when the unit is turned off.

- Check your ECO mode setting.

Erroneous display.

- Reset the unit.

Poor radio reception.

- Check antenna connection. Adjust the antenna to find the best reception.
- Move unit and antenna away from other electric appliances and cords.

The disc plays poorly (general).

- Check if the disc is correctly loaded.
- Check if the disc is not dirty.
- Check if the pickup lens is not affected by condensation. If so, wait approximately one hour and try again.

The disc plays poorly (DVDs).

- Check that the disc's rating level does not exceed your setting.
- Check that the disc is a PAL colour system disc.
- Check that the unit is not connected to a video deck, through a selector switch, or to a TV set with a built-in video deck. Picture noise may appear due to the DVD copy protection scheme. Turn off the power or disconnect these equipment.
- The picture quality may be poorer compared to normal playback during pause, frame advance, fast forward or fast reverse.
- Many DVD features, such as menu, subtitles, multi-audio, multi-angle, and rating are dependent on the DVD software itself. Check the instructions of your disc.
- If a multichannel source does not seem to be played with the full surround effect, check the type of your source (page 20), selected audio track (page 19), and selected listening mode (page 21 and 22).

Resetting the unit

If the display window gets mangled, reset the unit as follows:

1 Press POWER to turn off the power.
  If the power cannot be turned off, disconnect the AC power cord, then plug it in again.
2 Hold down DISC PLAY/BAND and press POWER.
  Everything stored in memory after purchase is cleared.

Resetting DVD setup

If trouble concerning DVD playback is not fixed with the troubleshooting tips mentioned above, or if you want to reset the DVD setup to default for any other reason, reset as follows:

1 Turn FUNCTION to select the DVD function.
2 Press ■ to stop disc playback.
3 Hold down SETUP and press ■. Release when "CLEAR" appears on the unit's display.
  The power turns off automatically in a few seconds.
4 Press POWER to turn the power back on.
  All your setup menu setting is cleared to default. All mark data are erased.

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Specifications

MAIN UNIT CX-GDV335

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 ohms (unbalanced)
MW tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
MW usable sensitivity	350 µV/m
LW tuning range	144 kHz to 290 kHz
LW usable sensitivity	1400 µV/m
MW/LW antenna	Loop antenna

AMPLIFIER

Power output	Front: Rated: 60 W + 60 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 75 W + 75 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 90 W + 90 W Rear (Surround): Rated: 20 W + 20 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 25 W + 25 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 35 W + 35 W Centre: Rated: 20 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 25 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 35 W
Total harmonic distortion	0.1 % (20 W, 1 kHz, 6 ohms, DIN AUDIO/Front)
Input	MIC: 1.0 mV (10 kohms) VIDEO/AUX: 300 mV (adjustable) MD: 300 mV (adjustable)
Output	FRONT SPEAKERS: 6 ohms or more SURROUND SPEAKERS: 8 ohms to 16 ohms CENTER SPEAKER: 8 ohms or more SUB WOOFER: 1 V LINE OUT: 210 mV DIGITAL AUDIO OUT (OPTICAL) PHONES: 32 ohms or more

DISC PLAYER

Laser	Semiconductor laser (DVD video discs λ = 650 nm, CDs λ = 780 nm)
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Signal format	PAL colour system
S-VIDEO OUT (S1)	Y output: 1 Vp-p (75 ohms, unbalanced) C output: 0.286 Vp-p
VIDEO OUT	Video composite output, 1 Vp-p (75 ohms, unbalanced), one RCA jack
OUT (TV)	Video composite output, 1Vp-p (75 ohms, unbalanced)
Operating conditions	5°C to 35°C (41°F to 95°F)

GENERAL

Power requirements	230 V AC, 50 Hz
Power consumption	210 W
Standby power consumption	ECO ON: 0.6 W ECO OFF: 30 W
Dimensions (W x H x D)	260 x 266 x 350 mm
Weight	9.8 kg

FIVE SURROUND SPEAKERS SYSTEM SX-GDV335

(Front, surround and centre speakers)

Speaker system	1 way (magnetic shielded*)
Speaker units	80 mm cone
Impedance	Front: 6 ohms Surround: 8 ohms Centre: 8 ohms
Dimensions (W x H x D)	100 x 220 x 115 mm (with pedestal) 100 x 110 x 115 mm (without pedestal)
Weight	0.55 kg
Accessories:	Wall mounting screws (5) Anti-skid patches (9)

* The surround speakers are not magnetic shielded.

Specifications and external appearance are subject to change without notice.

BBE SYSTEM

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